

Workshop manual

**Cutting decks
2WD-4WD
2000-2008**

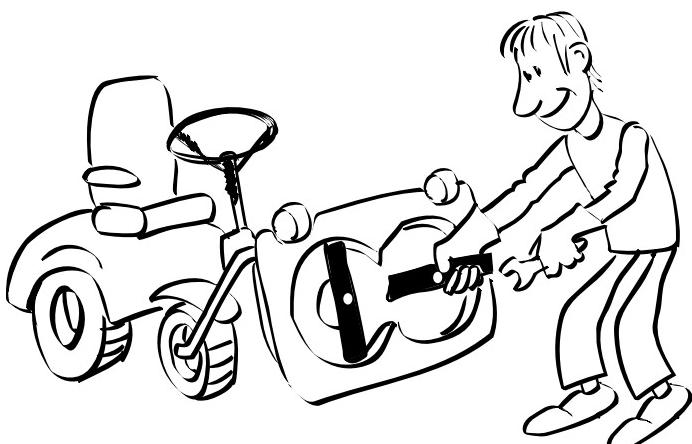


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Mower Deck

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1 General

The decks are equipped with two or three synchronised rotating blades. The tracks of adjacent blades are overlapping each other, which means that the synchronization is vital. All shafts/pulleys are pivoted in sealed and permanent lubricated ball bearings.

All decks are provided with a quick-coupling to simplify the lifting up procedure for cleaning and inspection and. The decks are also provided with an electrical or manual adjusting device for the cutting height.

All decks are tested prior to delivery and are delivered as completely assembled as possible. This ensures that assembly on delivery is rapid and simple.

This chapter describes assembly on delivery, repair, replacements and adjustments of stressed parts of the mower decks.

1.1 General tightening torque

Unless otherwise stated, the following tightening torque are applicable for screws and nuts on the machine:

Tightening torques:

Thread	Torque
M5	5 Nm
M6	9 Nm
M8	22 Nm
M10	45 Nm



Note!

Blade shafts with external threads, cutted at the shaf, have special tightening torques.
Note the actual torque in the special case.

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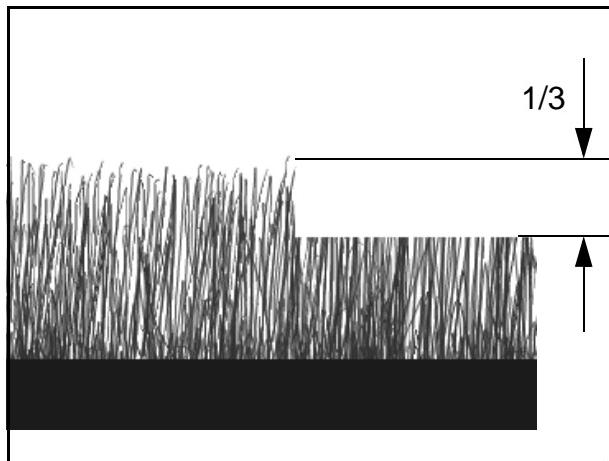
1 Cutting theory

1.1 Cutting height

The best cutting results are achieved when the top third of the grass is cut off.
I.e. 2/3 of the length of the grass remains.

If the grass is long and has to be cut significantly, cut twice using different cutting heights.

Do not use the lowest cutting heights if the lawn surface is uneven. This would entail a risk of the blades being damaged against the surface and the lawn's top layer of soil being removed.



1.2 Incline

The cutting deck's rear section can be lifted so that the deck has a greater forward incline than that provided by the basic setting. This incline affects the cutting results as follows.

No incline

When the deck is in the basic setting, the best mulching effect and good dispersion of the cut grass are achieved. The basic setting is recommended for normal grass.

Incline

When the cutting deck is inclined forwards, the mulching effect is reduced while the cut grass is dispersed better.

Inclining forwards is recommended for thicker grass.

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2 Original blades

2.1 Why it is so important to use original blades and blade tips from the retail dealer?

The table below shows the demands on original blades and blade tips, delivered from the retail dealer.

The table is intended to display the importance to use the original blades and blade tips.

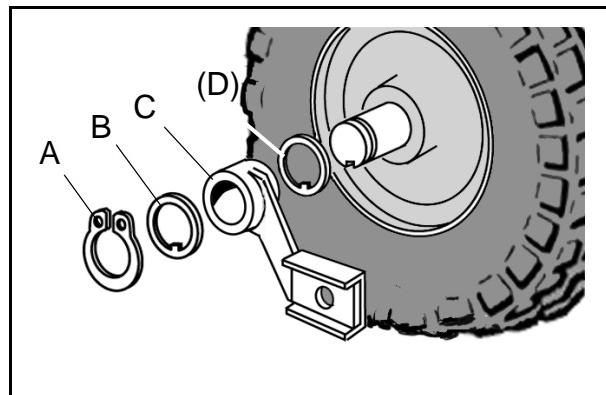
Demand	Remarks
No splitting of blade tips.	 <p>Using steel balls, the manufacturer simulates what can happen if you drive over foreign objects on the lawn. The sharpening of the blades may be destroyed, but no parts are allowed to loosen or fly away.</p>
No splitting of blades.	 <p>The impact test is the toughest durability test a lawn mower can be subject to. An iron pipe is placed right into the blades during operation. The blade can be deformed but it may not under any circumstances, come off or split. This test verifies that blades and other parts fulfil the high safety requirements.</p>
Optimal balance. Minimum of noise. Minimum of vibrations.	 <p>Blades and blade tips from the retail dealer have exactly the same weight. Blades and blade tips from the retail dealer are optimal balanced. This guarantee a minimum of vibration and noise which gives a maximal durability of the machine. It also guarantee that the machine corresponds to the specification according to noise and vibrations.</p>
Optimal cutting result.	Blades and blade tips from the retail dealer are optimized in the application. I.e. the blades are adapted to the shape och the cover and the number of revolutions to give the best cutting result.

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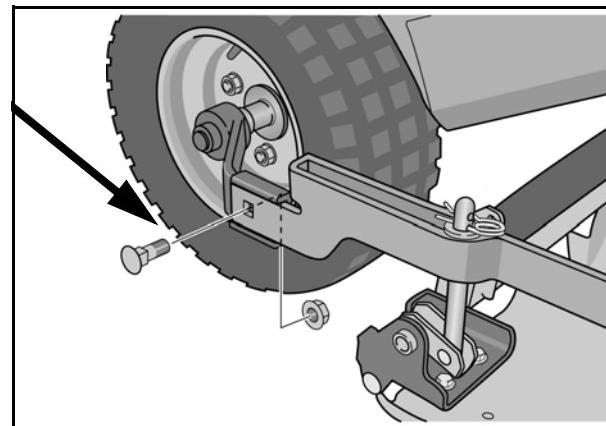
3 Mower deck 85, 95, 105 Combi

3.1 Assembly on delivery of Park 4WD with fixed deck connections and Villa/Ready

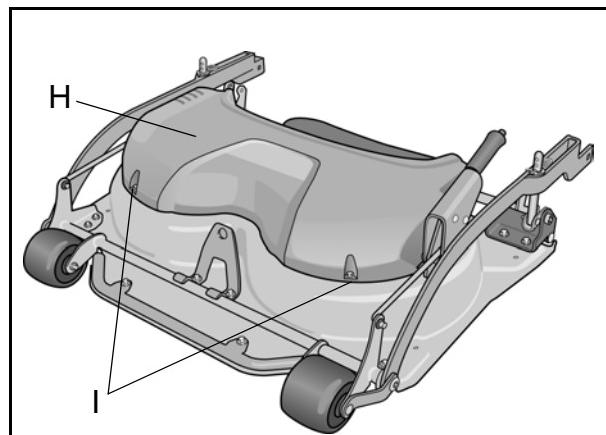
1. Place the deck in position in front of the machine.
2. Check that the deck mounts are installed on the machine as follows.
 - Washer (D). Only machines up to and including 2006.
 - Deck mount (C).
 - Washer (B).
 - Circlip (A).



3. Screw the arms into each other.

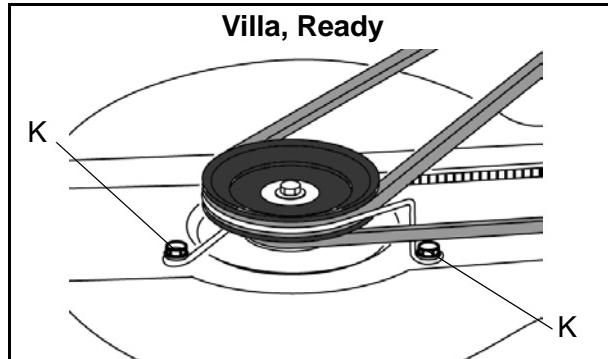


4. Remove the belt cover (H) by loosening the screws (I).

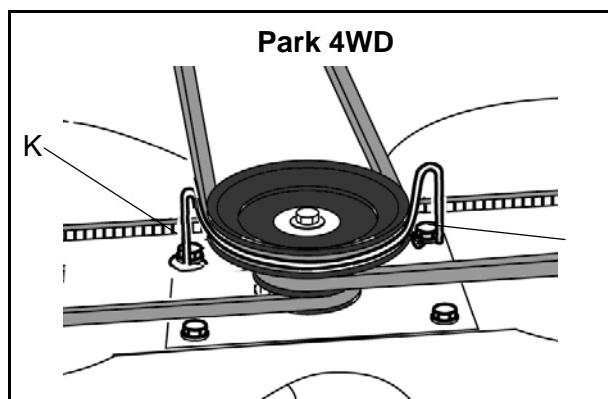


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5. Loosen the belt guide screws (K) a couple of turns.

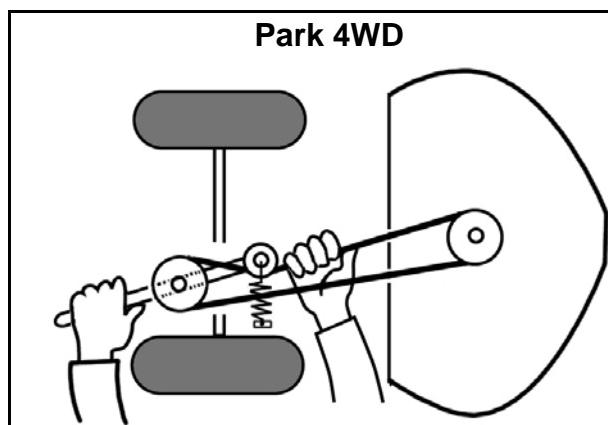


6. Set the maximum cutting height.
 7. Work off the belt from the cutting deck pulley.
 8. Fit the belt to the machine pulley and after that to the cutting deck pulley.
 9. Tighten the belt guide screws (K).
 10. Tension the belt as follows.



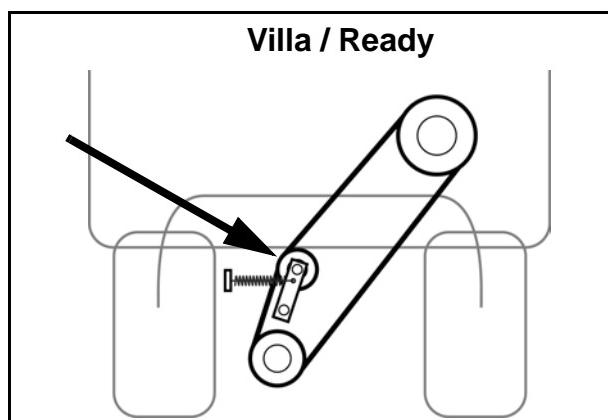
Park 4WD:

Grip the belt tensioner's lever with your left hand. Pull the lever and apply the tensioner to the outside of the belt with your right hand.



Villa, Ready:

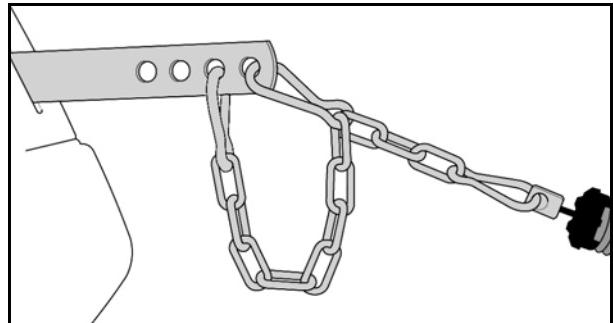
Tension the belt with the belt idler. The belt idler should be on the inside of the belt and pull out to the left (viewed from the driver's position).



11. Install the belt cover (H) with the screws (I).

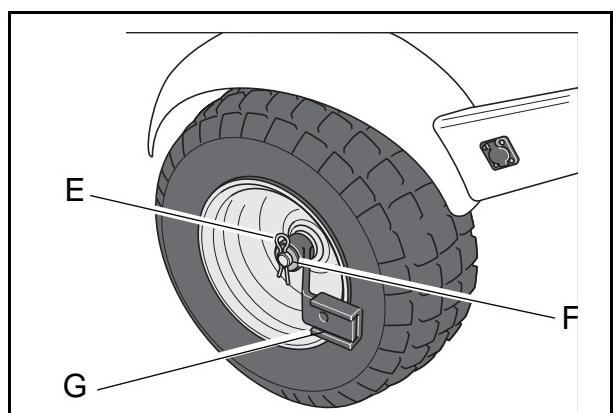
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12. Suspend the unit in the implement lifter.
13. Perform the cutting deck basic setting. See "Basic setting" at page 9".
14. If the deck has electrical cutting height adjustment, connect the cable to the machine's front right socket.



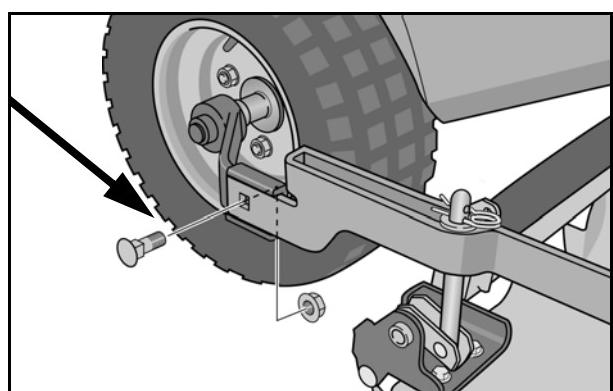
3.2 Assembly on delivery of Park 2WD with fixed deck connections

1. Place the deck in position in front of the machine.
2. Check that the deck mounts are installed on the machine as follows.
 - Deck mount (G).
 - Washer :F).
 - Lock pin (E).

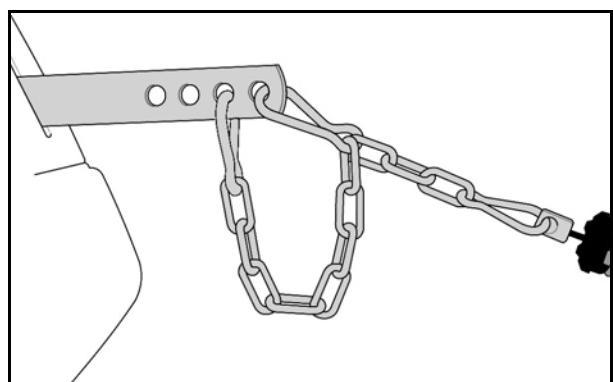


3. Screw the arms into each other.
4. Set the maximum cutting height.
5. Locate the belt around the machine's belt pulley.
6. Tension the belt as follows.

Tension the belt with the belt idler. The belt idler should be on the left side of the belt viewed from the driver's position.



7. Suspend the unit in the implement lifter.
8. Perform the cutting deck basic setting. See "Basic setting" at page 9".
9. If the deck has electrical cutting height adjustment, connect the cable to the machine's front right socket.



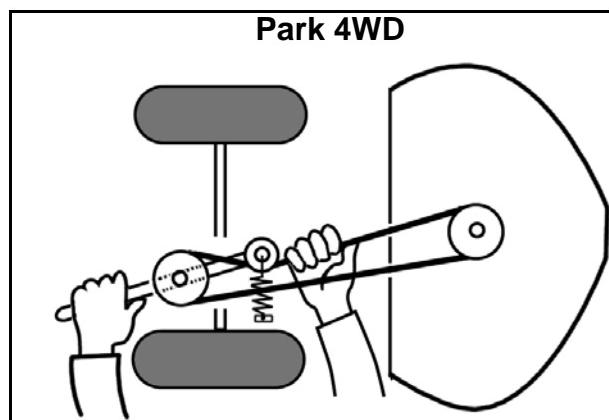
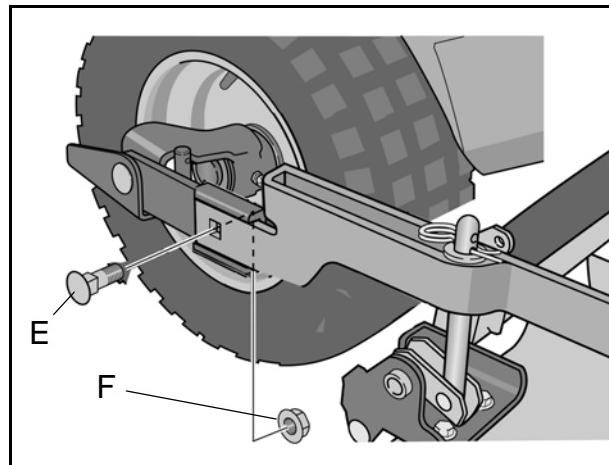
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3.3 Assembly on delivery of machines with quick connections

1. Place the deck in position in front of the machine.
2. Check that the quick connections are fitted to the machine See "Quick connections" at page 57.
3. Screw the arms into each other.
4. Set the maximum cutting height.
5. Set the quick connections in their rear positions. See their supplied separate instruction.
6. Fit the belt on to the machine pulley.
7. Tension the belt as follows.

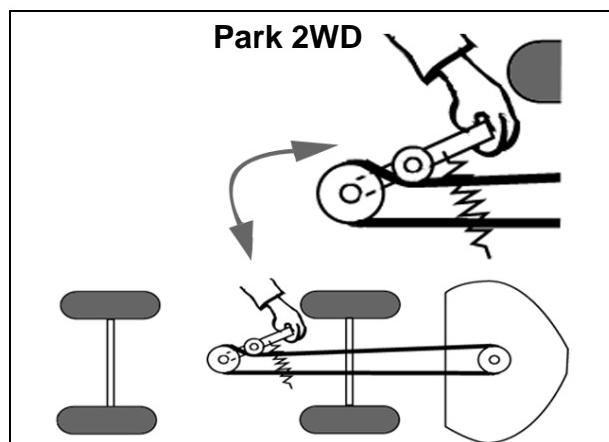
Park 4WD:

Grip the belt tensioner's lever with your left hand. Pull the lever and apply the tensioner to the outside of the belt with your right hand.



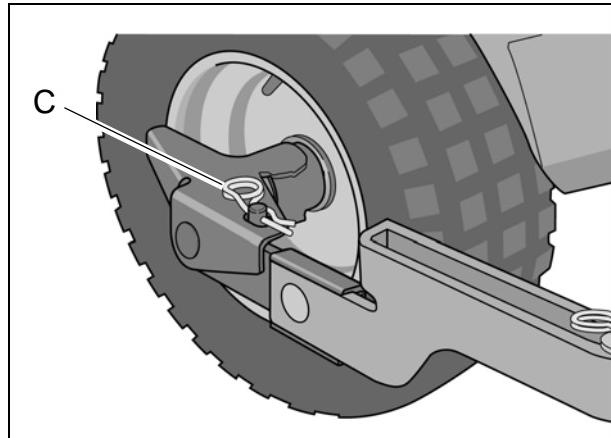
Park 2WD:

Tension the belt with the belt idler. The belt idler should be on the left side of the belt viewed from the driver's position.



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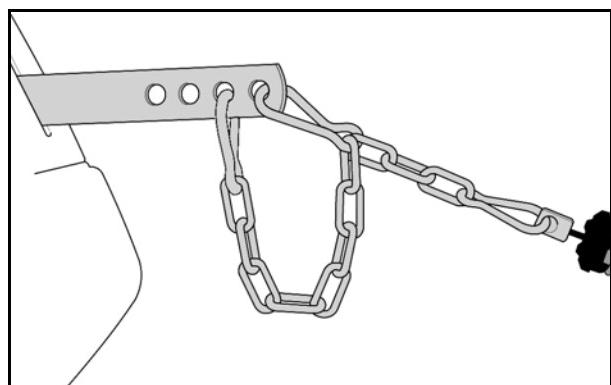
8. Set the quick connections in their front positions and fit the locking pins (C).



9. Suspend the unit in the implement lifter.

10. Perform the cutting deck basic setting. See "Basic setting" at page 9".

11. If the deck has electrical cutting height adjustment, connect the cable to the machine's front right socket.



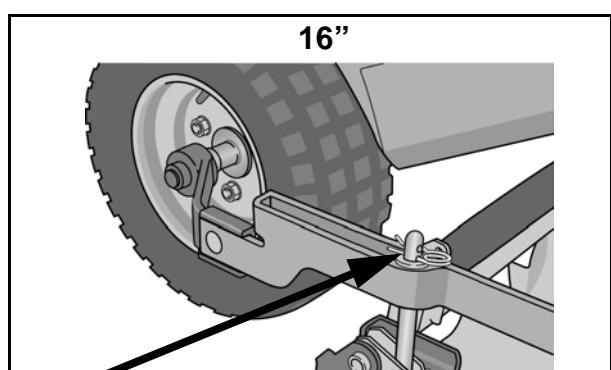
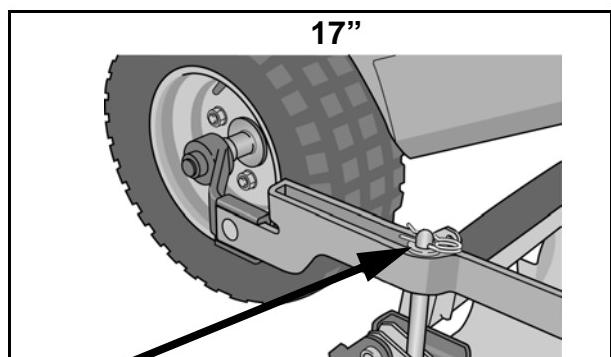
3.4 Basic setting

In order for the cutting deck to cut optimally, the correct basic setting is required. The deck is in the basic setting when its rear edge is 5 mm above its front edge. This means that the deck is inclined forwards.

Move the deck to the basic setting by lifting and securing as follows.

On machines with 17" wheels: Install the washers and the pins in the top hole.

On machines with 16" wheels: Install the washers and the pins in the middle hole.



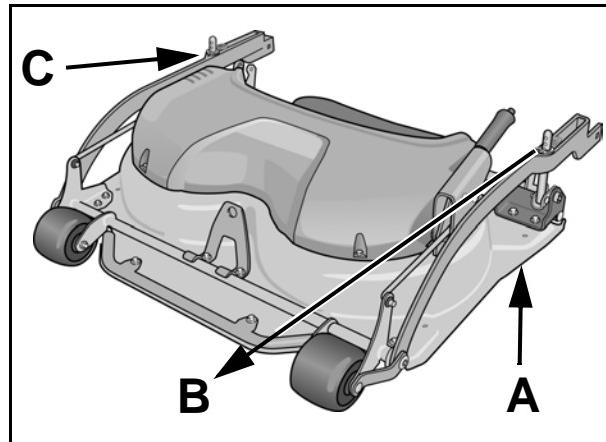
3.5 Washing position

1. Activate the parking brake.
2. Set the implement lifter in transport position.
3. Set the highest cutting height.

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4. Detach the rear section of the deck on the right and left-hand side as follows:

- A. Lift up the left-hand rear section of the deck slightly to reduce the load from the cotter pin.
- B. Remove pins and washers.
- C. Remove the right-hand cotter pin and washer in the same way.

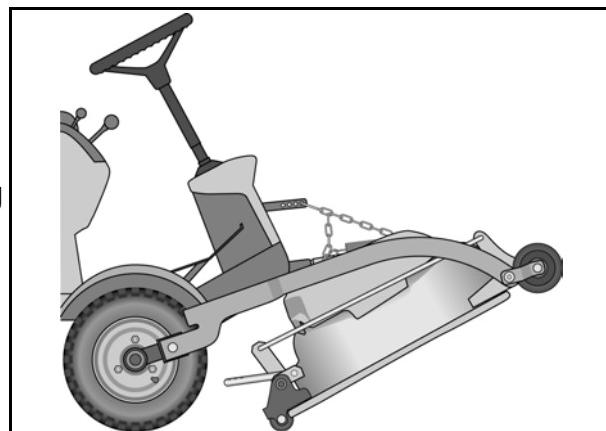


5. Grip the front edge of the deck and lift up. Hook on the chain so that the deck is pointing diagonally upwards.



Warning!
It is absolutely forbidden to start the engine when the deck is in the washing position.

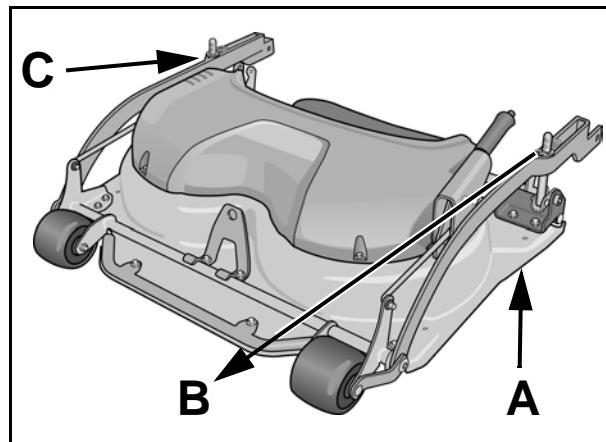
Reset the deck according to the actual previous described assembly instruction.



3.6 Service position

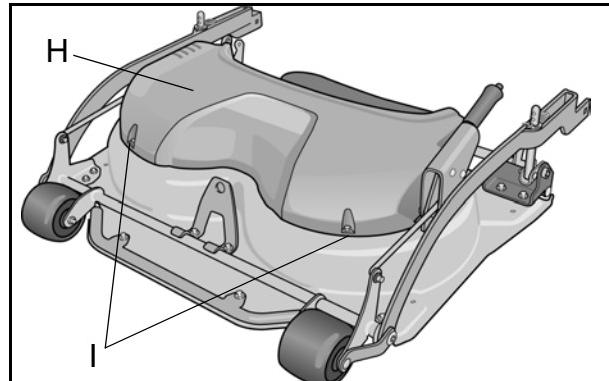
Park 4WD with fixed deck connections and Villa/Ready

1. Activate the parking brake.
2. If the deck has electrical cutting height adjustment, disconnect the cable from the machine.
3. Set the maximum cutting height.
4. Detach the rear section of the deck on the right and left-hand side as follows:
 - A. Lift up the left-hand rear section of the deck slightly to reduce the load from the cotter pin.
 - B. Remove pins and washers.
 - C. Remove the right-hand cotter pin and washer in the same way.



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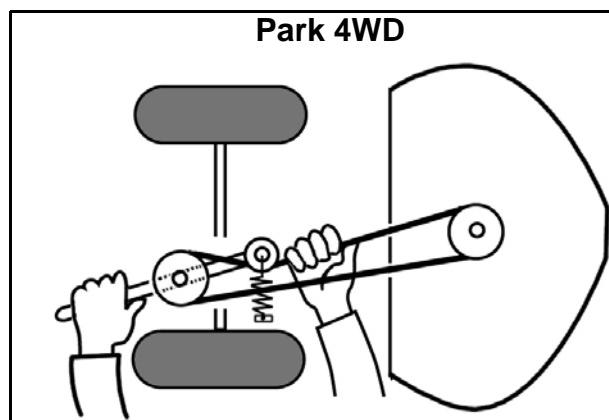
5. Remove the belt cover (H) by loosening the screws (I).
6. Loosen the belt guide screws (K) a couple of turns.



7. Release the belt tension as follows.

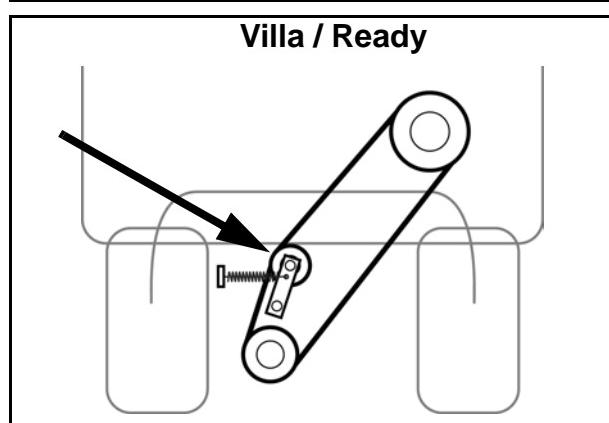
Park 4WD:

Grip the belt tensioner's lever with your left hand. Pull the lever and remove the tensioner with your right hand.

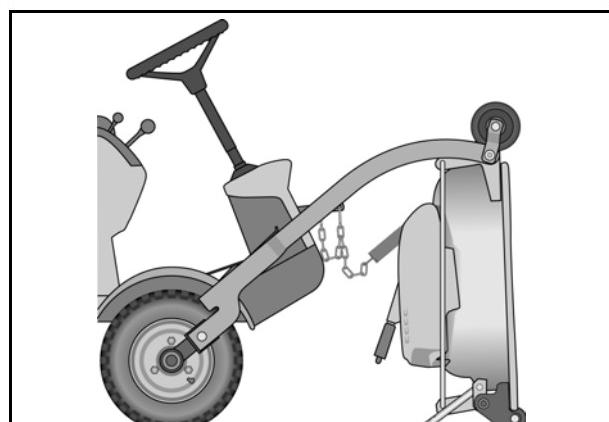


Villa, Ready:

Remove the tensioner from the belt.



8. Force the belt off the deck's pulley.



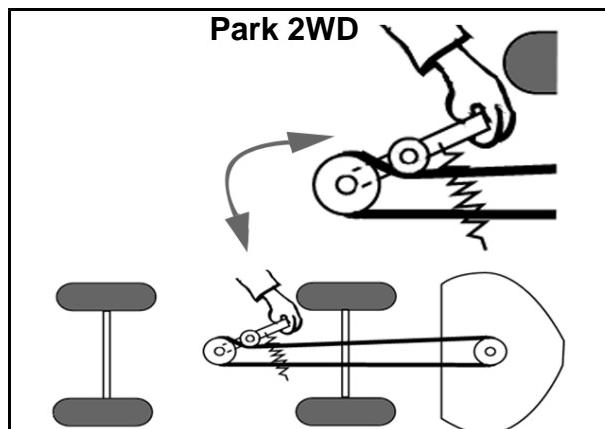
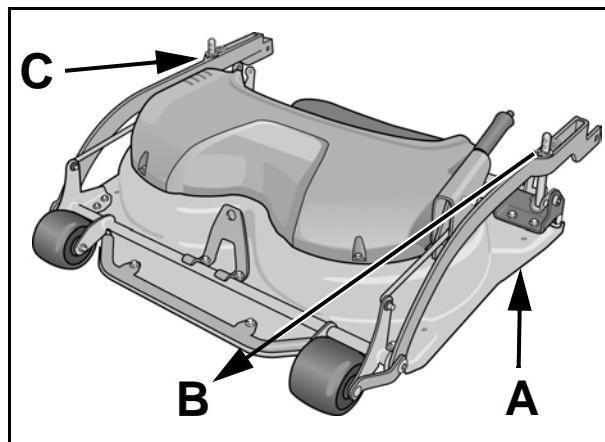
9. Grip the front edge of the deck and lift up. Lift until the deck is completely vertical and rest the rear edge on the ground.

Reset the deck according to the actual previous described assembly instruction.

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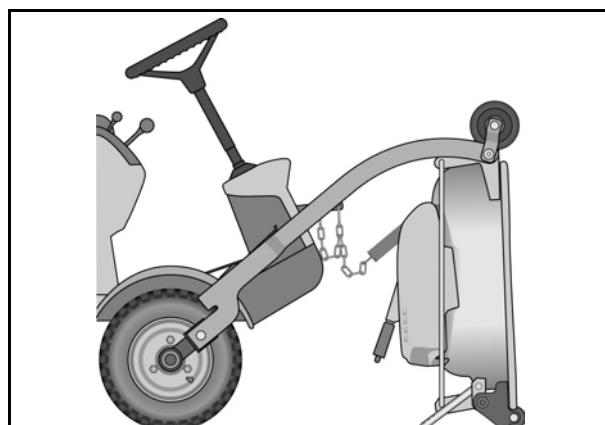
Park 2WD with fixed deck connections

1. Activate the parking brake.
2. If the deck has electrical cutting height adjustment, disconnect the cable from the machine.
3. Set the maximum cutting height.
4. Detach the rear section of the deck on the right and left-hand side as follows:
 - A. Lift up the left-hand rear section of the deck slightly to reduce the load from the cotter pin.
 - B. Remove pins and washer.
 - C. Remove the right-hand cotter pin and washer in the same way.
5. Release the belt tension by removing the belt tensioner.
6. Force the belt off the machine's pulley.



7. Grip the front edge of the deck and lift up. Lift until the deck is completely vertical and rest the rear edge on the ground.

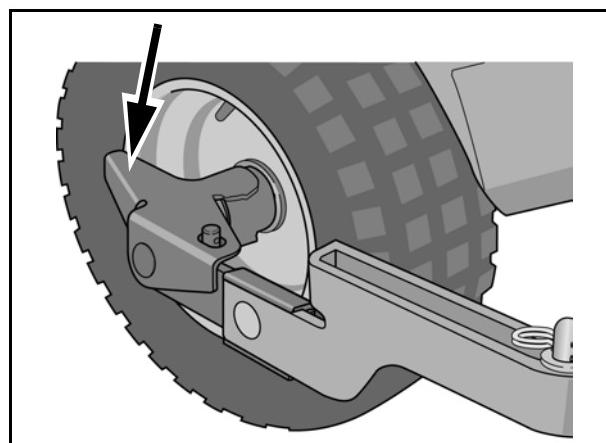
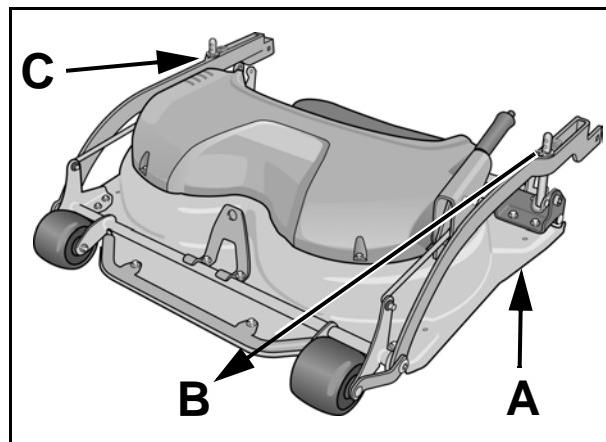
Reset the deck according to the actual previous described assembly instruction.



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Machines with quick connections

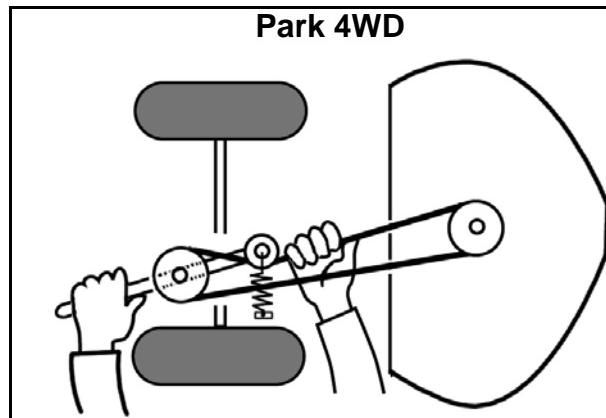
1. Activate the parking brake.
2. If the deck has electrical cutting height adjustment, disconnect the cable from the machine.
3. Set the maximum cutting height.
4. Detach the rear section of the deck on the right and left-hand side as follows:
 - A. Lift up the left-hand rear section of the deck slightly to reduce the load from the cotter pin.
 - B. Remove pins and washer.
 - C. Remove the right-hand cotter pin and washer in the same way.
5. Set the quick connections in their rear positions.



6. Release the belt tension as follows.

Park 4WD:

Grip the belt tensioner's lever with your left hand. Pull the lever and remove the tensioner with your right hand.

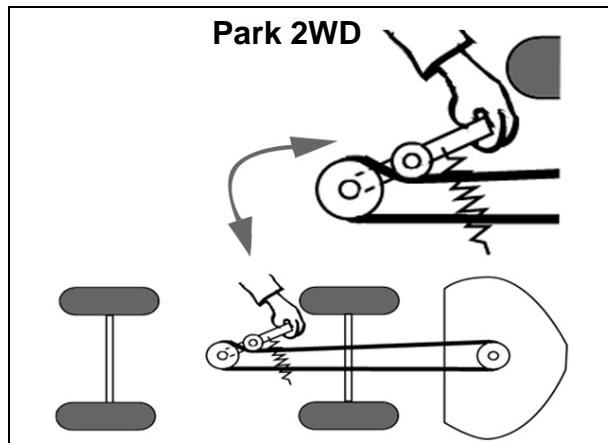


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Park 2WD:

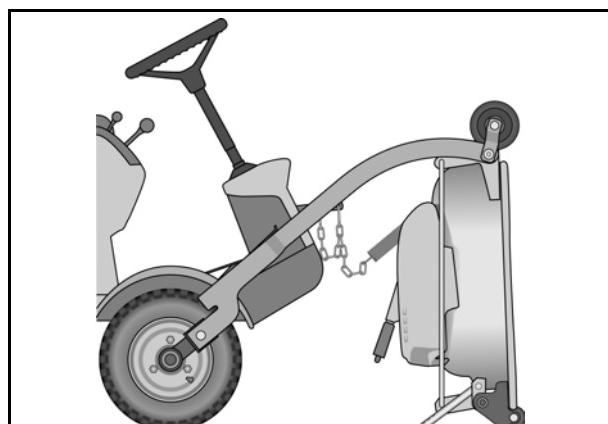
Remove the tensioner from the belt.

7. Force the belt off the deck's pulley.



8. Grip the front edge of the deck and lift up. Lift until the deck is completely vertical and rest the rear edge on the ground.

Reset the deck according to the actual previous described assembly instruction.



3.7 Safety

To reduce the risk of accidental injury in the event of a collision and to protect important parts in the cutting deck, a force limiter is integrated as follows.

- Shear bolts between blades and blade bar.
- Torque limiting between gear wheels and blade shaft.
- Possibility of positive drive belt slipping on the plastic gear wheels.

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3.8 Replacement of blades

Warning!

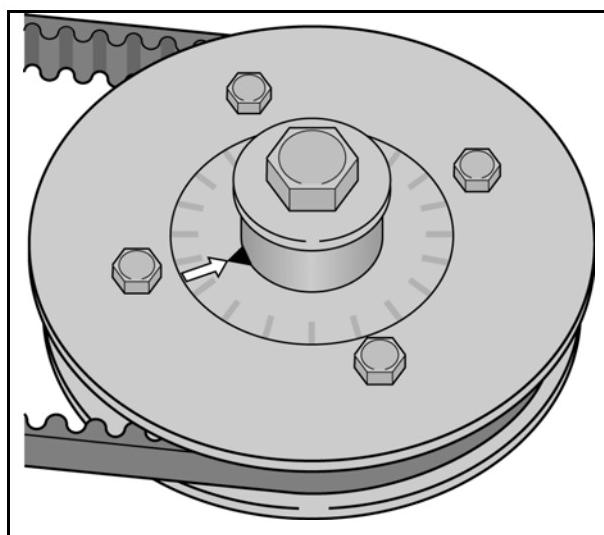
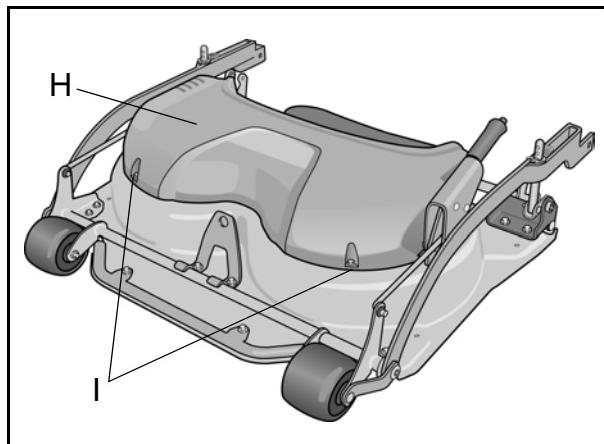
! **The blades are sharp. Always wear gloves when working with the blades to avoid injury.**

Warning!

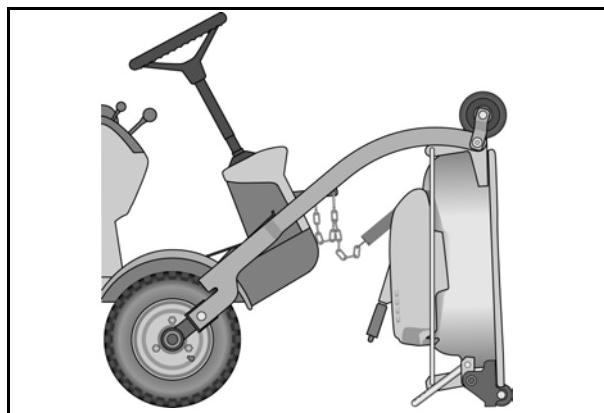
! **When replacing, both blades on the same blade bar must be replaced to avoid imbalance.**

Disassembly

1. Remove the belt cover (H) by unscrewing the screws (I).
2. Check the torque limiting between gear wheels and blade shaft. The arrows in the figure must be opposite each other for an intact deck. When torque limiting has deployed, the arrows are **not** opposite each other.



1. Rise the deck to its service position. See "Service position" at page 10.
2. Release the screws that hold the blades, and remove the blades.
3. After removing the blades, check whether the shafts are damaged. This is best done by rotating the shafts to see if they are out of true.



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Assembly

- Fit the blades according to the figure.

The sharpened surfaces of the blades shall face in the rotation direction which is left when the deck is raised.

Note the following when reassembling:

- The blades and blade bar must be installed as in the figure.
- The blades can be turned 1/3 of a turn in their mountings. Select positions so that the blades are offset 90° from each other. See "Synchronising, blades" at page 17.

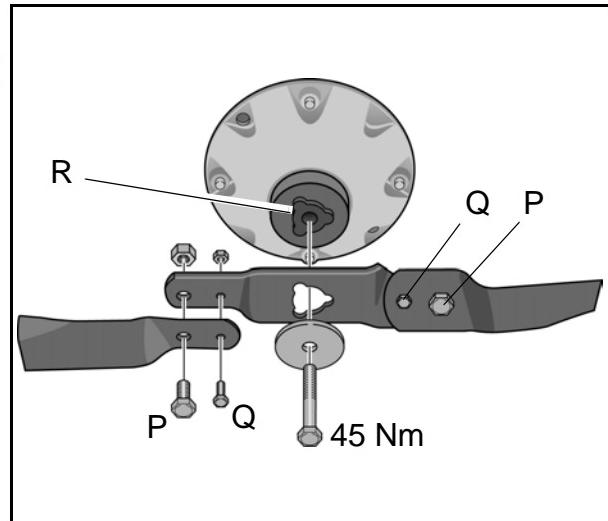
Tightening torque:

Screws (P) - 45 Nm

Shear bolts (Q) - 9.8 Nm

In the event of a collision, the shear bolts (Q) can break and the blades bend back. If this has happened, install genuine shear bolts and tighten as above.

- Tighten all screws.



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Synchronising, blades

The deck has synchronised blades.

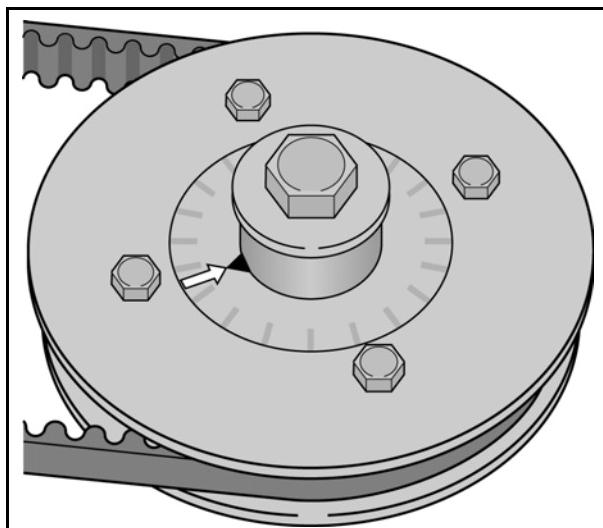
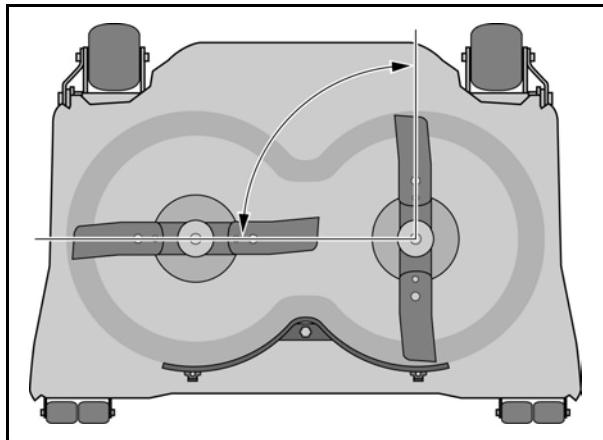
If one of the blades has struck a solid object (e.g. a stone), the synchronisation may be altered. This entails a risk of the blades colliding with each other.

Correctly synchronised blades must be offset 90° from each other. See the figure.

Always check synchronisation after a collision.

If the blades are not synchronised, one or more of the following faults may have occurred in the cutting deck:

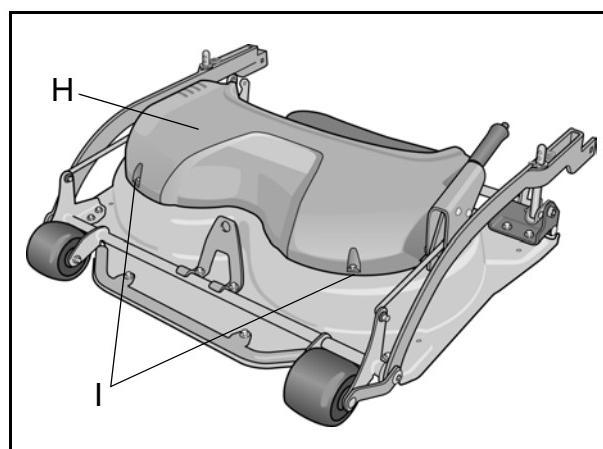
- The positive drive belt has slipped on the gear wheels.
- Torque limiting between gear wheels and blade shaft has deployed. The arrows in the figure must be opposite each other for an intact deck. When torque limiting has deployed, the arrows are **not** opposite each other.
- The blade member is incorrectly installed on the blade shaft. Can be installed in three different positions. See the previous page.



3.9 Replacement of belt, Villa/Ready-deck

Disassembly

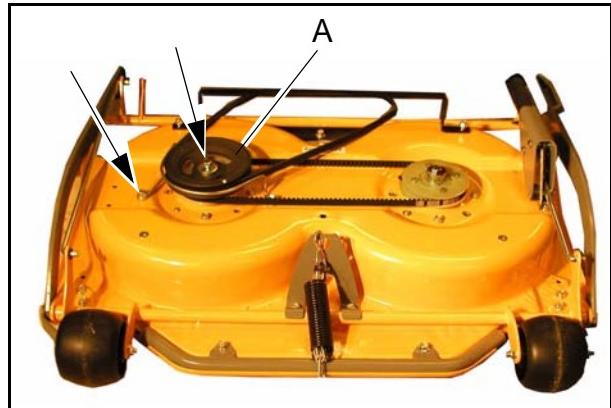
1. Remove the belt cover (H) by unscrewing the screws (I). Use a 12 mm box spanner.



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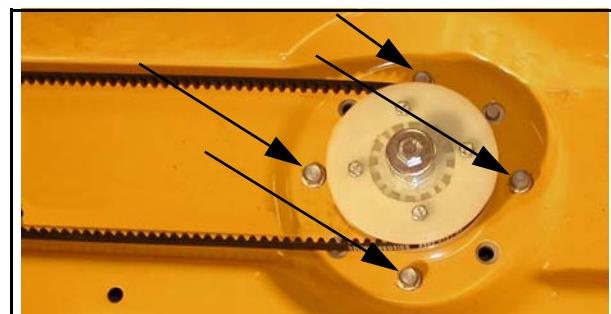
2. Remove the following:

- Belt guide with screws (13 mm key)
- Shaft screw with washer (19 mm key)
- Pull up the pulley (A).

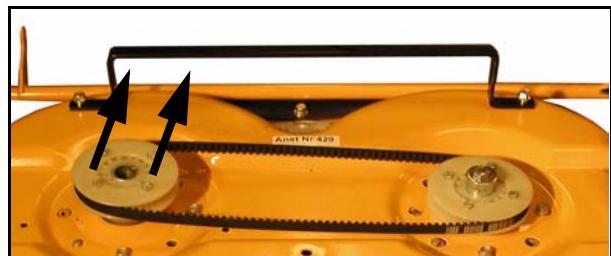


3. Loosen the four screws for the left bearing housing a couple of turns.

- ! Note!
- The left bearing housing is lateral adjustable to perform the timing belt adjustment.



4. Remove the key at the right shaft and lift the pulley together with the belt.



Checks

1. Check the torque limiting between gear wheels and blade shaft. See "Synchronising, blades" at page 17.
2. Check the two blade shaft bearings as follows:
 - Grab the pulley and force it in the radial direction. No radial play shall be felt.
 - Grab the knife and force it in the radial direction. No radial play shall be felt.
 - Rotate the shaft. No abnormal bearing noise shall be heard.

The bearing housings are not divided in additional spare parts. If bearing failure is detected, replace the entire bearing housing.

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Assembly of belt, Villa/Ready-deck

Assemble the timing belt in the reverse order.

Correctly synchronised blades must be offset 90° from each other. See "Synchronising, blades" at page 17.

Before the the left bearing housing screws are tightened, the belt shall be adjusted.

Adjust as follows:

Alternative A

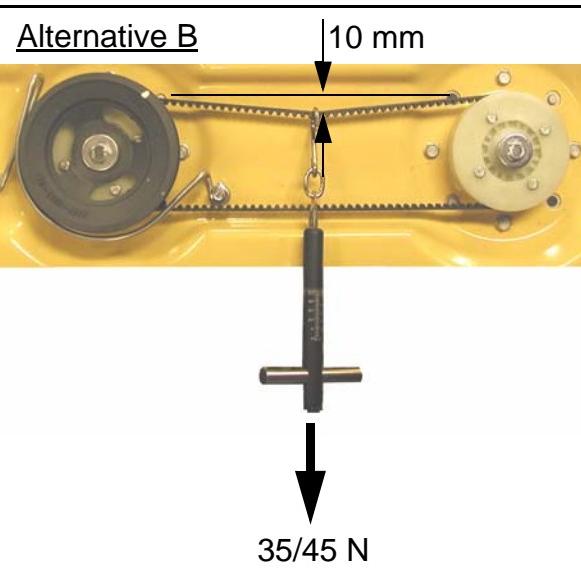
1. Stretch the belt by pulling the the left bearing housing with a force of 300 N (30 kg).
2. Tighten the four bearing housing screws.

Alternative A



Alternative B

1. Stretch the belt by pulling the the left bearing housing.
2. Tighten the four bearing housing screws.
3. Apply a force as per the table below in the middle of the belt. The belt shall move 10 mm. If not, loosen the bearing housing and repeat step 1-2 above until the movement is OK.

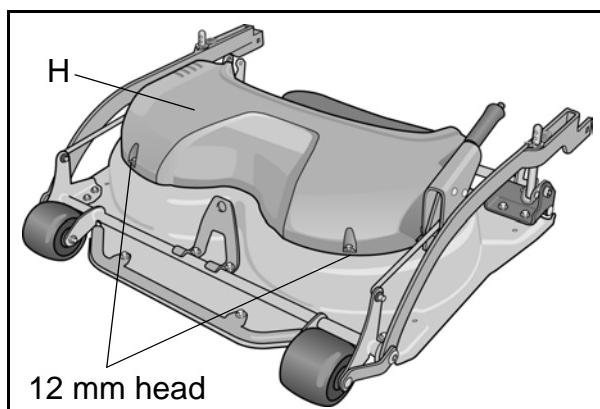


Timing belt adjustments:

Deck	85 Combi	95 Combi
Force	45 N	35 N
Movement	10 mm	10 mm

When assembling the belt cover (H) use the two M8-screws with 12 mm head.

The cover recesses have no place for a 13 mm spanner.

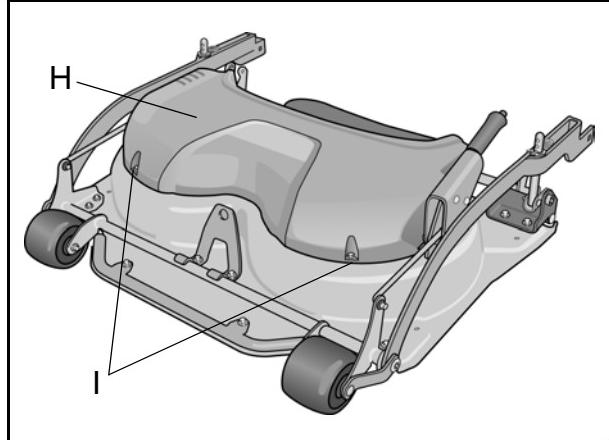


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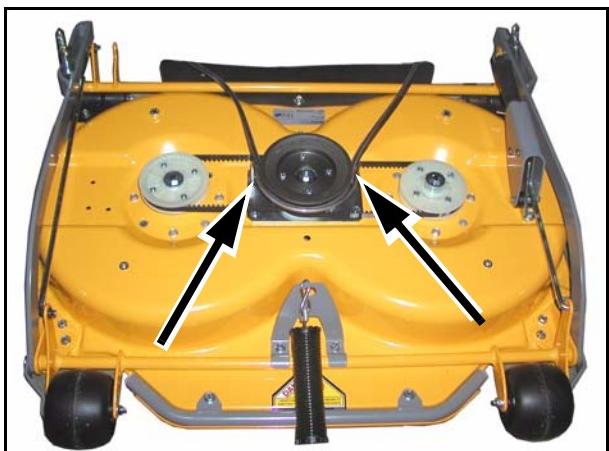
3.10 Replacement of belt, Park-deck

Disassembly

1. Remove the belt cover (H) by unscrewing the screws (I). Use a 12 mm box spanner.



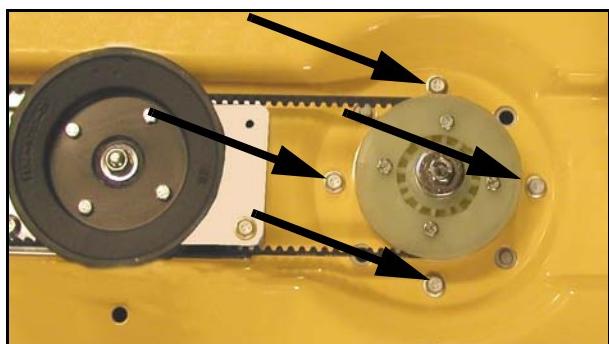
2. Remove the belt guide with screws (13 mm spanner).



3. Loosen the left and right bearing housing screws a couple of turns (8 screws).

Note!
! The bearing housings are lateral adjustable to perform the timing belt adjustments.

4. Work off the belts from the pulleys.



Checks

1. Check the torque limiting between gear wheels and blade shaft. See "Synchronising, blades" at page 17.
2. Check the two blade shaft bearings as follows:
 - Grab the pulley and force it in the radial direction. No radial play shall be felt.
 - Grab the knife and force it in the radial direction. No radial play shall be felt.
 - Rotate the shaft. No abnormal bearing noise shall be heard.

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The bearing housings are not divided in additional spare parts. If bearing failure is detected, replace the entire bearing housing.

3. Check the center pulley bearings as follows:

- Grab the pulley and force it in the radial direction. No radial play shall be felt.
- Rotate the pulley. No abnormal bearing noise shall be heard.

To replace bearings, see "Replacements of center pulley bearings" at page 22.

Assembly of belt, Park-deck

Assemble the timing belts in the reverse order. Before the left and right bearing housing screws are tightened, the belts shall be adjusted.

Adjust as follows:

Alternative A

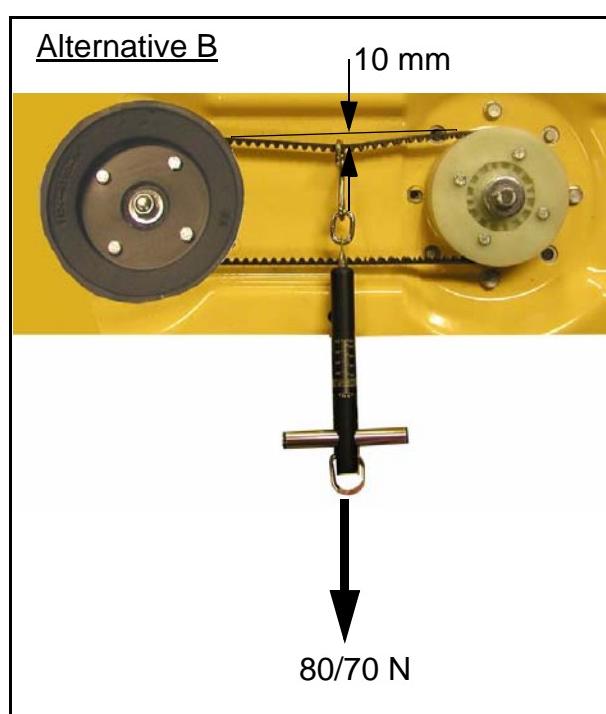
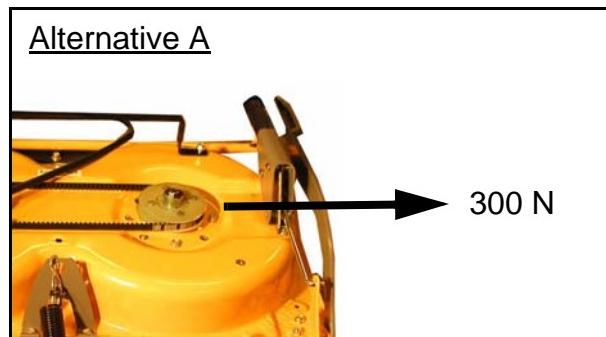
1. Stretch the belt by pulling the bearing housings with a force of 300 N (30 kg).
2. Tighten the bearing housing screws.

Alternative B

1. Stretch the belt by pulling the left bearing housing.
2. Tighten the four bearing housing screws.
3. Apply a force as per the table below in the middle of the belt. The belt shall move 10 mm. If not, loosen the bearing housing and repeat step 1-2 above until the movement is OK.

Timing belt adjustments:

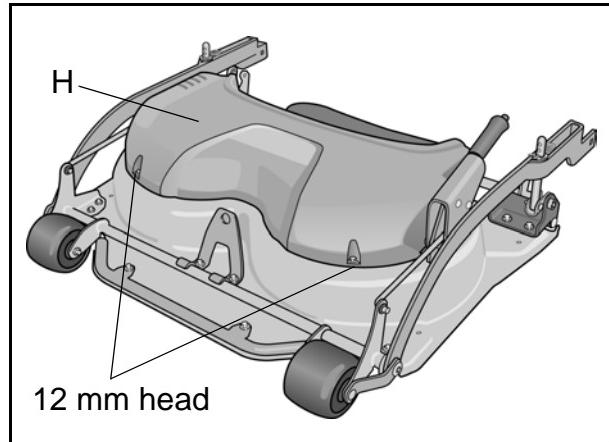
Deck	95 Combi	105 Combi
Force	80 N	70 N
Movement	10 mm	10 mm



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When assembling the belt cover (H) use the two M8-screws with 12 mm head.

The cover recesses have no place for a 13 mm spanner.

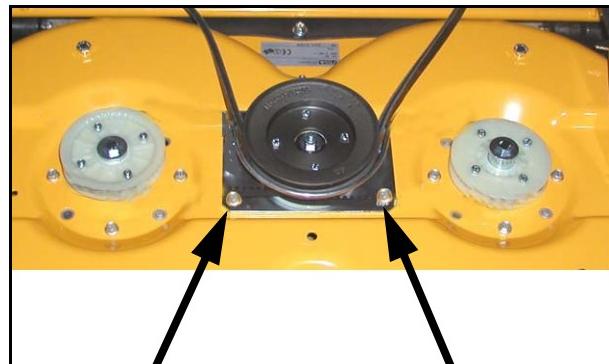


3.11 Replacements of center pulley bearings

To replace the center pulley bearings, first remove the timing belts. See "Replacement of belt, Park-deck" at page 20.

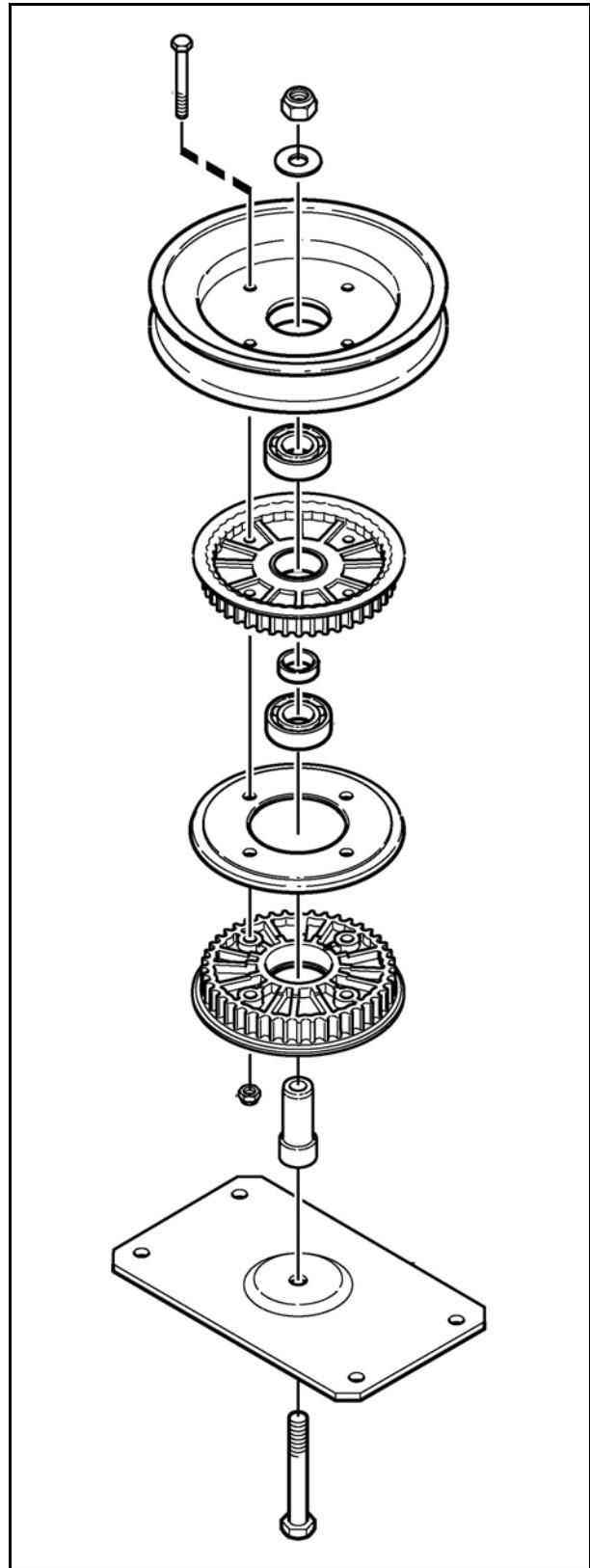
Proceed as follows:

1. Remove the pulley plate by unscrewing the two screws.
2. Set up the unit in a vise and disassemble it. Use two 17 mm spanners.



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3. Replace defective parts and assemble in the reverse order. According the parts location, see the figure.



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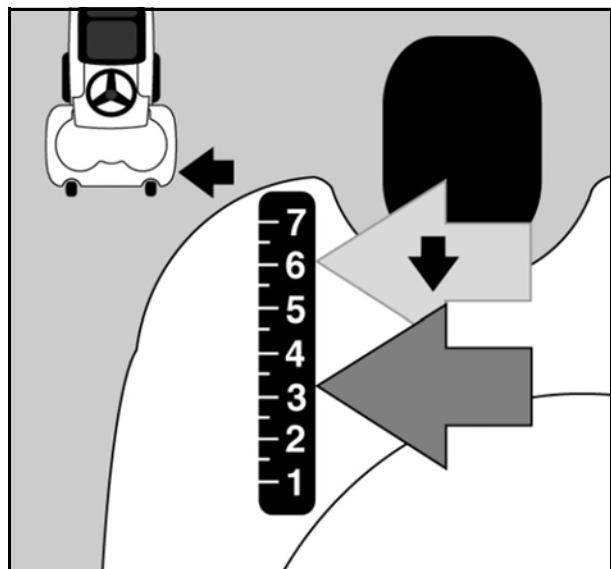
4 Multiclip 107 M and 92 M

4.1 Assembly on delivery

1. Take the deck out of the box.
2. Fit the deck arms in the front deck attachments.

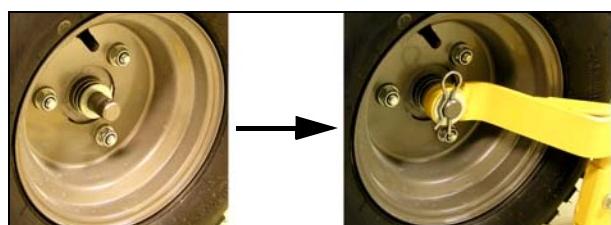


4. Set the cutting height just above the middleheight. In this position, the deck arms are not blocked by the side supports at the deck. Since the deck is moving up and down in a circular movement it will be closest to the PTO pulley which facilitate the belt attachment.



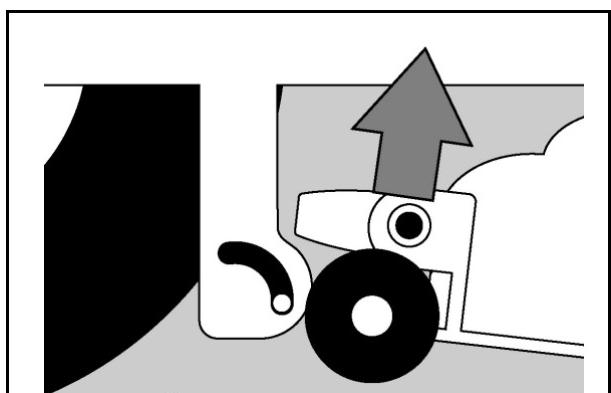
5. Attach the deck arms to the front wheel shafts of the machine and secure with the locking pins.

- Note!**
- ! One flat washer shall be placed at each side of the deck arms onto the wheel shafts.



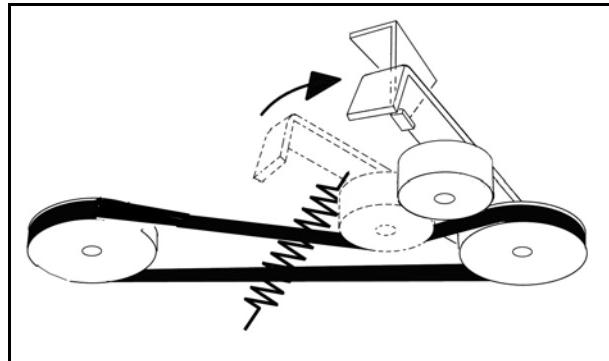
6. Lift up the deck at the rear at the left and right side until the deck engages in the quick release locks.

7. Attach the front spring hinge to the machine front elevating arm.



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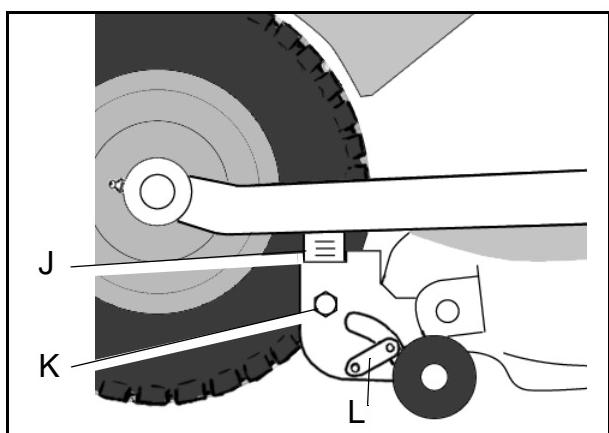
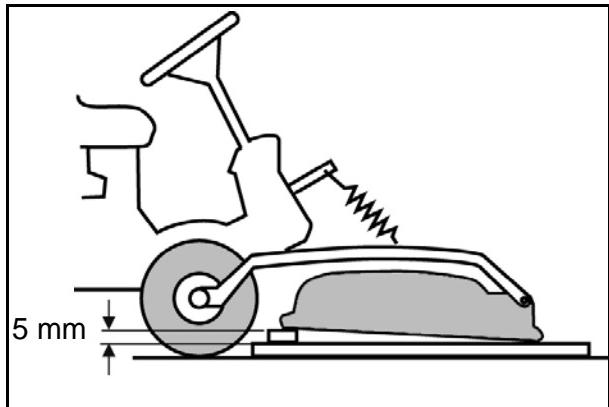
8. Fit the V-belt to the articulation point pulley and tension the belt by hooking up the lever or the spring, depending on model.
9. If applicable, fit the electrical height adjustment connector to the machine.



Basic setting

Perform basic setting as follows:

1. Place the machine on a level floor.
Requirements for floor flatness: $\pm 1 \text{ mm/m}$.
No slope towards a floor drain or similar may occur in front of or behind the machine.
2. The tyres must have the correct air pressure.
3. Place the deck in transport position and lay a plane-parallel plank under the deck.
4. Place a 5 mm tall spacer on the plank under the rear edge of the cutting deck, and lower the deck to the working position.
5. Undo the screws (K) so that the deck rests against the plank and the spacer. Check that the deck does not lean sideways in relation to the machine.
6. Tighten the screws (K) to 22 Nm.
7. Place the deck in transport position and remove the plank.

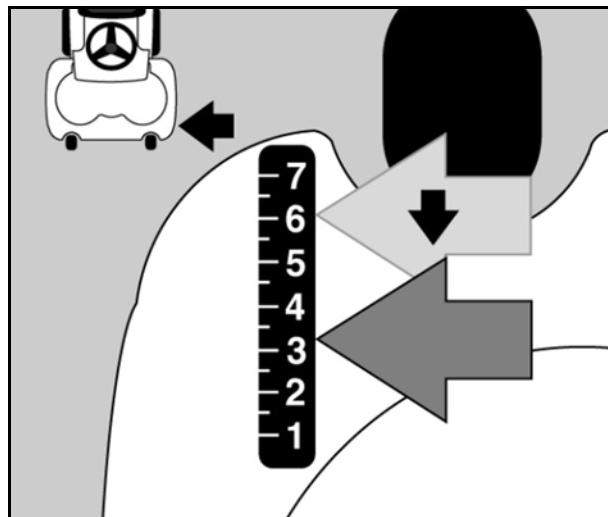


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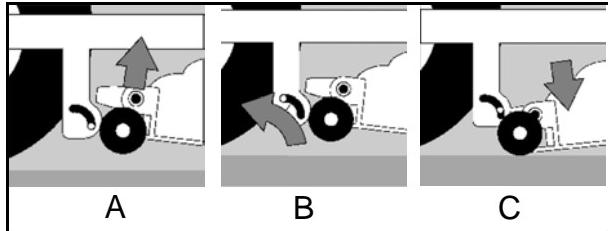
4.2 Raising the deck

After every cutting, the deck shall be raised for cleaning and inspection. The raising procedure is performed in **five steps**. The lowering is performed in the same **five steps**, but with step 2-4 in the opposite order. The steps order at raising are as follows:

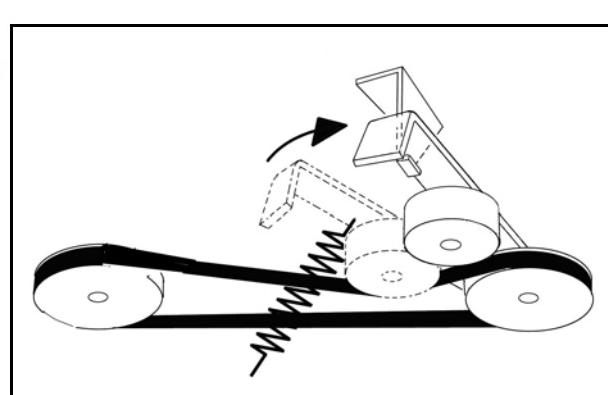
1. Set the cutting height just above the middleheight. Since the deck is moving up and down in a circular movement it will be closest to the PTO pulley which facilitate the belt attachment.



2. Lift the deck at the rear and release the quick release lock at the right side.
See A + B + C.
3. Lift the deck at the rear and release the quick release lock at the left side.
See above.



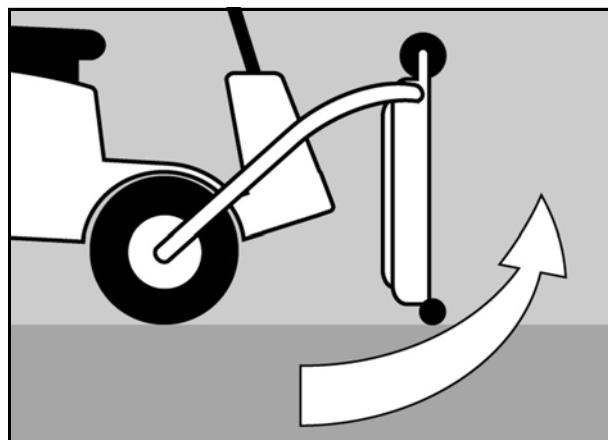
- Note!**
- If the deck is equipped with electric height adjustment, disconnect the connector from the machine.
4. Slacken the belt by hooking off the lever or the spring, depending on model and remove the V-belt from the articulation point pulley.



5. Raise the deck and let it rest on the rear.

As mentioned above, the lowering is performed in the opposite order. That means the steps above in the following order:

1 - 5 - 4 - 3 - 2



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4.3 Replacement of blades



Warning!

The blades are sharp. Always wear gloves when working with the blades to avoid injury.

1. Release the screws that hold the blades, and remove the blades.

After removing the blades, check whether the shafts are damaged. This is best done by rotating the shafts to see if they are out of true.



2. Fit the blades with the raised edge towards the blade attachment.

The sharpened surfaces of the blades shall face in the rotation direction, which is left for 92 M, when the deck is raised.

107 M exist in two versions:

- Both blades rotate in the same direction, , which is left.
- The blades rotate against each other. This deck is denominated 107 M+

3. Tighten the screws to the correct torque.



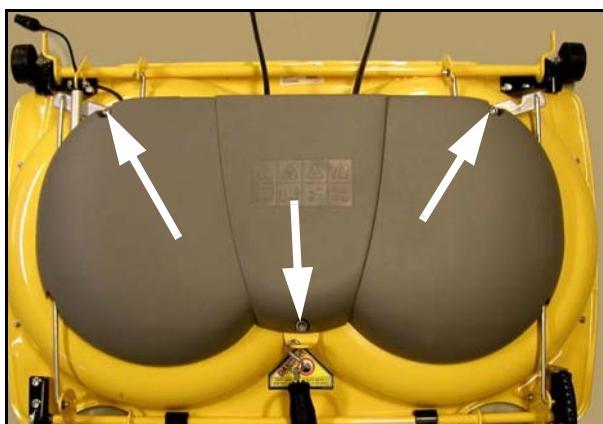
Note!

The blades shall be tightened to 24 Nm.

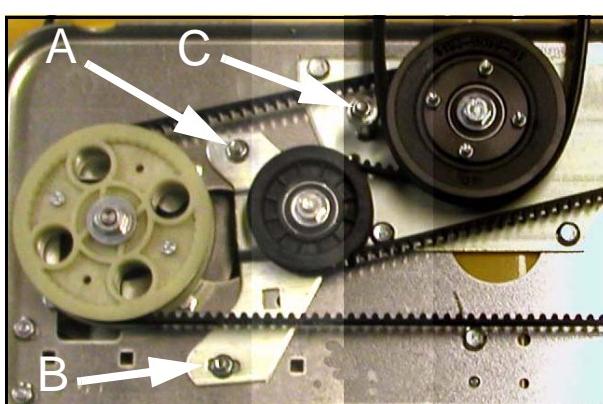
4.4 Replacement of belt, 92 M/107 M

This procedure is valid for 107 M , where the blades rotate in the same direction and for 92 M.

To replace the timing belt, follow the steps below:

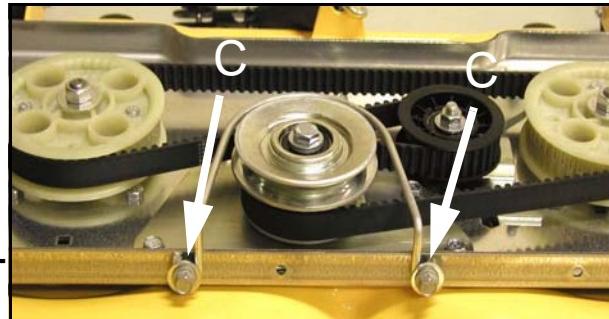


1. Remove the deck cover by loosening the two nuts and the screw.
2. Loosen, but don't remove the two screws (A and B), holding the timing belt adjustment arm. See the figure.
3. Remove the V-belt support (C) and the V-belt.
4. Back off the timing belt and assemble the new one.



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5. Reassemble the V-belt and its support (C).



Warning!

The tracks of adjacent blades are overlapping each other, which means that the synchronization is vital. Failed synchronization will result in severe damage to the blades and to the deck.

6. When the timing belt is engaged with the pulleys, the blades shall be displaced exactly 90° in relation to each other. See the figure.

7. Adjust the timing belt tension as described below and refit the deck cover.



4.5 Adjusting the timing belt, 92 M/107 M

This procedure is valid for 107 M , where the blades rotate in the same direction and for 92 M.

Adjust the timing belt as follows:

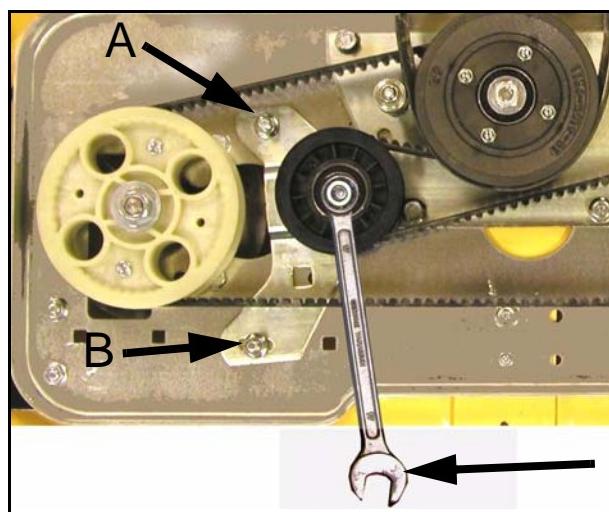
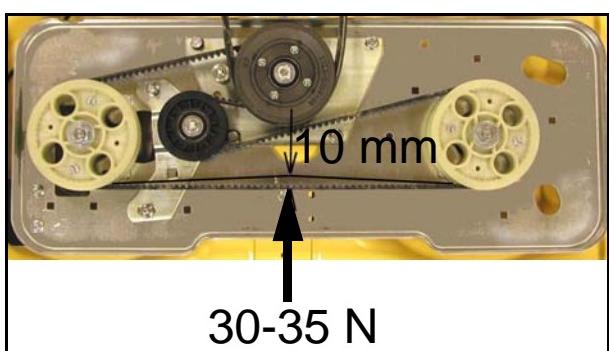
1. Measure the tension. The belt shall move 10 mm when it is pressed in with a force of 30-35 N as illustrated in the figure.
2. If the timing belt needs adjusting, loosen the two nuts (A and B) in the figure.
3. Move the adjustment arm by help of a 17 mm spanner and tighten the nuts, first nut B and then nut A.



Note!

Both nuts must be tightened when the measurement is performed.

4. Measure the tension as described above and, if necessary, make a new adjustment.



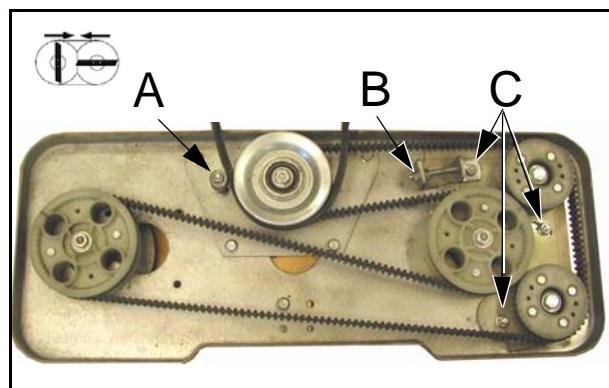
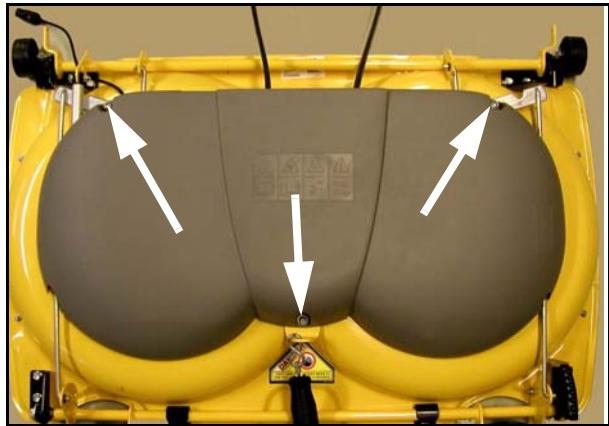
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4.6 Replacement of belt, 107 M+

This procedure is valid for 107 M+ , where the blades rotate against each other.

To replace the timing belt, follow the steps below:

1. Remove the deck cover by loosening the two nuts and the screw.
2. Loosen, but don't remove the three screws (C), holding the timing belt adjustment arm. See the figure.
3. Remove the V-belt support (A) and the V-belt.
4. Slacken the timing belt by removing the nut (B).
5. Back off the timing belt and assemble the new one.
6. Reassemble the V-belt and its support (A).



Warning!

The tracks of adjacent blades are overlapping each other, which means that the synchronization is vital. Failed synchronization will result in severe damage to the blades and to the deck.

6. When the timing belt is engaged with the pulleys, the blades shall be displaced exactly 90° in relation to each other. See the figure.
7. Adjust the timing belt tension as described below and refit the deck cover.



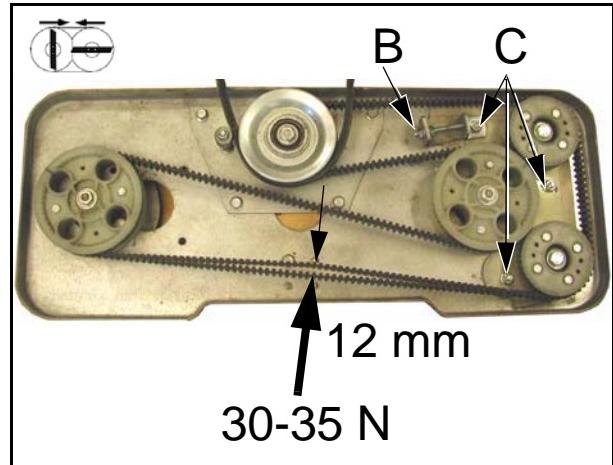
4.7 Adjusting the timing belt, 107 M+

This procedure is valid for 107 M+ , where the blades rotate against each other.

Adjust the timing belt as follows:

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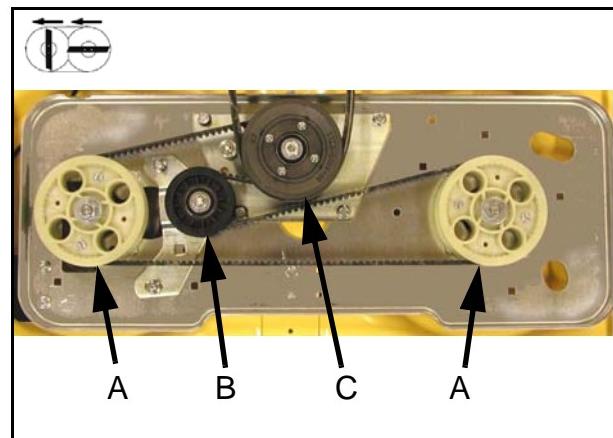
1. Measure the tension. The belt shall move 12 mm when it is pressed in with a force of 30-35 N as illustrated in the figure.
 2. If the timing belt needs adjusting, loosen the three nuts (C) ca one turn in the figure.
 - 3 Loosen the counternut to nut (B) (to the right of nut B) and adjust the tension with nut (B).
 4. Tighten the counternut to nut (B) and the three nuts (C).
- Note!**
! All nuts must be tightened when the final measurement is performed.
4. Measure the tension as described above and, if necessary, make a new adjustment.



4.8 Replacements of pulleys, shafts and bearings

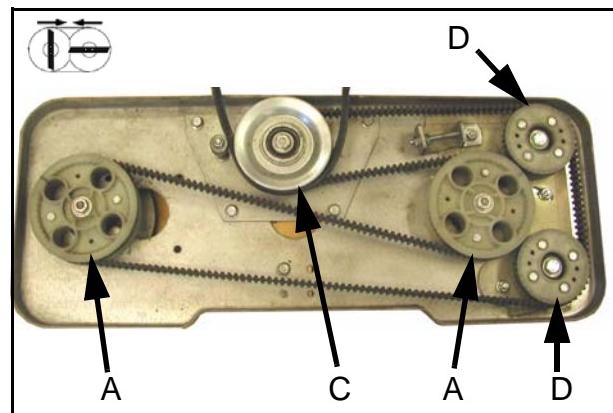
The mower deck 107 M , where the blades rotate in the same direction 92 M are equipped with three different types of pulleys, namely:

- A, Blade shaft pulleys, 2 pcs.
- B, Adjustment pulley.
- C, Intermediate pulley which is two assembled pulleys, one for the timing belt and one for the V-belt.



The mower deck 107 M , where the blades rotate against each other is equipped with three different types of pulleys, namely:

- A, Blade shaft pulleys, 2 pcs.
- C, Intermediate pulley which is two assem-



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bled pulleys, one for the timing belt and one for the V-belt.

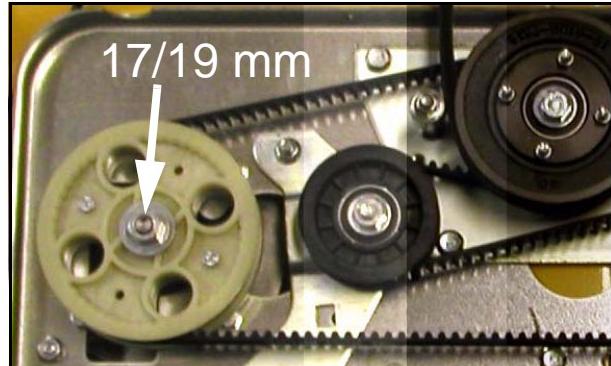
- B, Adjustment pulleys, 2 pcs.

To replace the pulleys, shafts and bearings, first remove the timing belt as described previously.

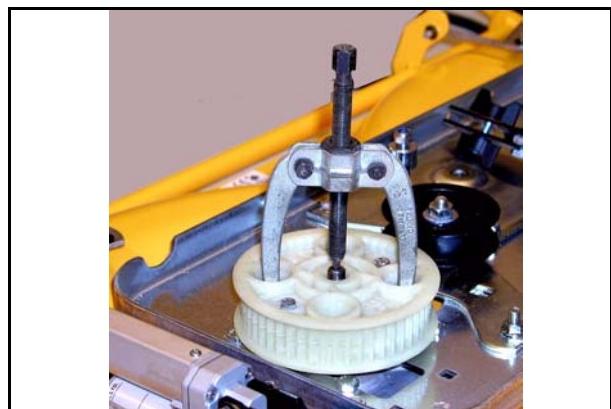
Blade shaft pulley (A) and blade shaft

Warning!

 **The blades are sharp. Always wear gloves when working with the blades to avoid injury.**



1. Hold the blade under the deck by hand and remove the nut with a 17/19 mm spanner.
2. Normally, the pulleys can be forced from the shaft by hand, however, if it is tight on the shaft, a puller can be used. See the figure.
3. Remove the key (A) and washer (B) under the pulley.
The washer (B) is introduced during pending production to prevent axial play, i.e. all decks are not provided with the washer.
4. Pull out the blade shaft downwards.
5. Replace defective parts and assemble in reverse order.
Older decks, without washer (B) shall be provided with the washer. See the spare parts catalogue.



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Note!

! The the location of the distance (C), washer (B) and key (A) on the blade shaft.

Warning!

! **The threads will be destroyed if the nuts are tightened above the torques defined below.**

5. Tighten the shaft nut as follows:

M10 to 40 Nm

M12 to 50 Nm

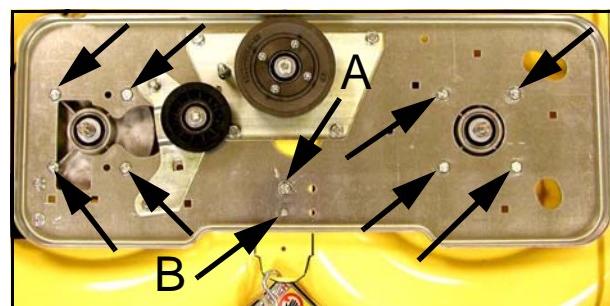
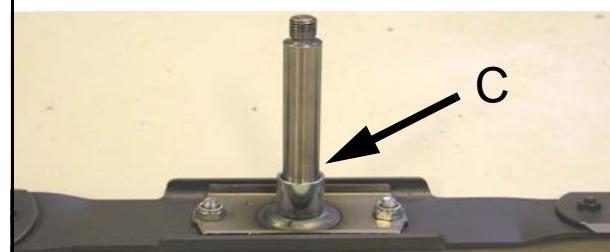
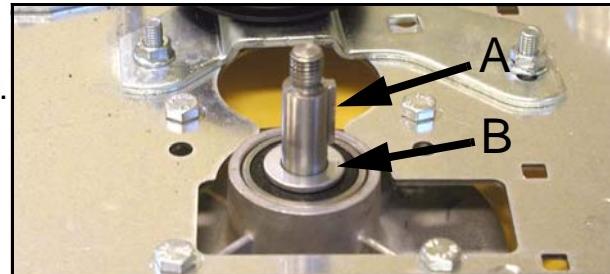
6. Refit and adjust the timing belt as described previously.

Blade shaft bearings

Each blade shaft is equipped with two sealed and permanent lubricated ball bearings. To replace the blade shaft bearings, first remove the timing belt their pulleys and the blade shafts as described previously.

Than proceed as follows:

1. Remove the transmission plate by unscrewing the 9 M8-screws and the Phillips screw (B). Each M8-screw has a nut on the opposite side under the deck, except the screw (A). Use two 13 mm wrenches.
2. Remove the transmission plate and the bearing housings.



3. In normal cases the complete bearing housing shall be replaced, in this case proceed with step 9. The bearing housing is not divided in the spare parts list. However, the bearings can be replaced as described below.
4. Set up the bearing housing in a vice and move the distance between the bearings off centre.

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Warning!

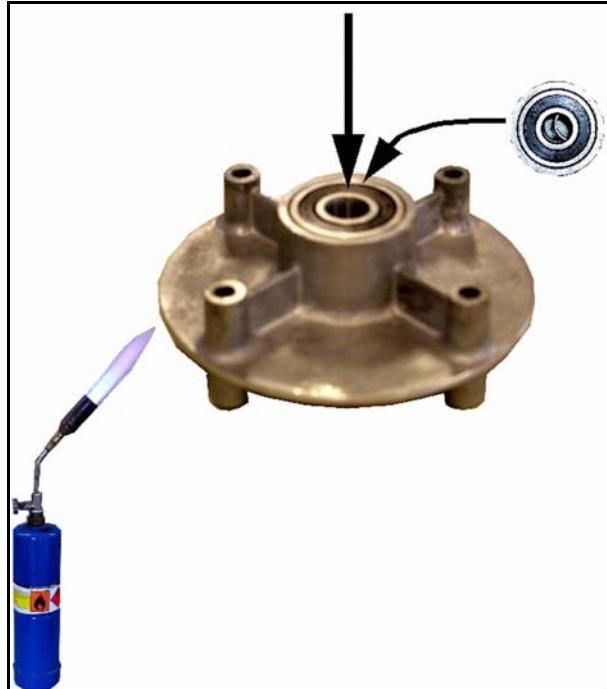
To avoid burns, use gloves when handling heat parts.

5. Heat the bearing housing to about 100°C and knock carefully out the lower bearing with help of a round bar and a hammer..
6. Turn the bearing housing and knock out the other bearing.
7. Refit new bearings and the distance when the bearing housing is still warm.
8. Assemble the bearing housings and transmission plate in the reverse order.



Note!

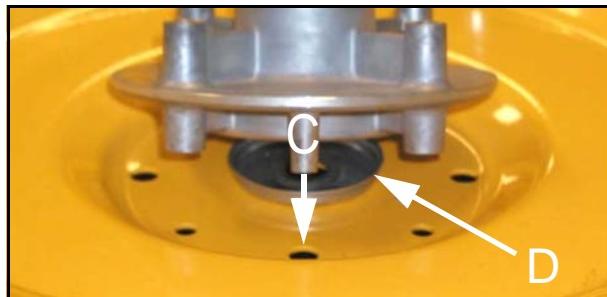
Check that the dowel pins (C) at the bearing housings fit in the holes in the deck housing. See the figure.



Note!

Check that the cup washes (D) is in place. See the figure.

9. Assemble the pulleys. Refit and adjust the timing belt as described previously.



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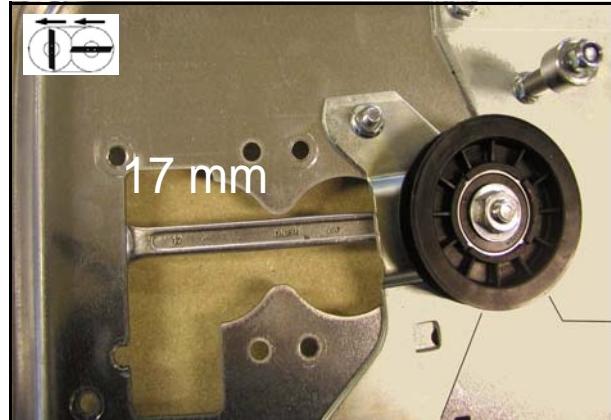
Adjustment pulley (B), 92 M/107 M

This procedure is valid for 107 M , where the blades rotate in the same direction and for 92 M.

To dismantle the adjustment pulley (B), first remove the timing belt as described previously.

Then proceed as follows:

1. Hold the nut under the unit and remove the screw at the top of the unit. Use two 17 mm spanners.



The bearing and pulley are permanently assembled and shall be replaced as one unit.

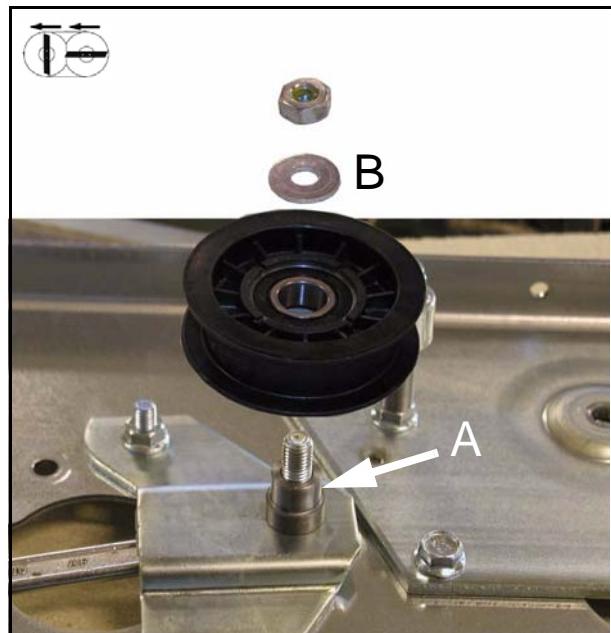
2. Assemble the new pulley in reverse order.



Note!

Note the location of the distance (A) and washer (B).

3. Refit and adjust the timing belt as described previously.



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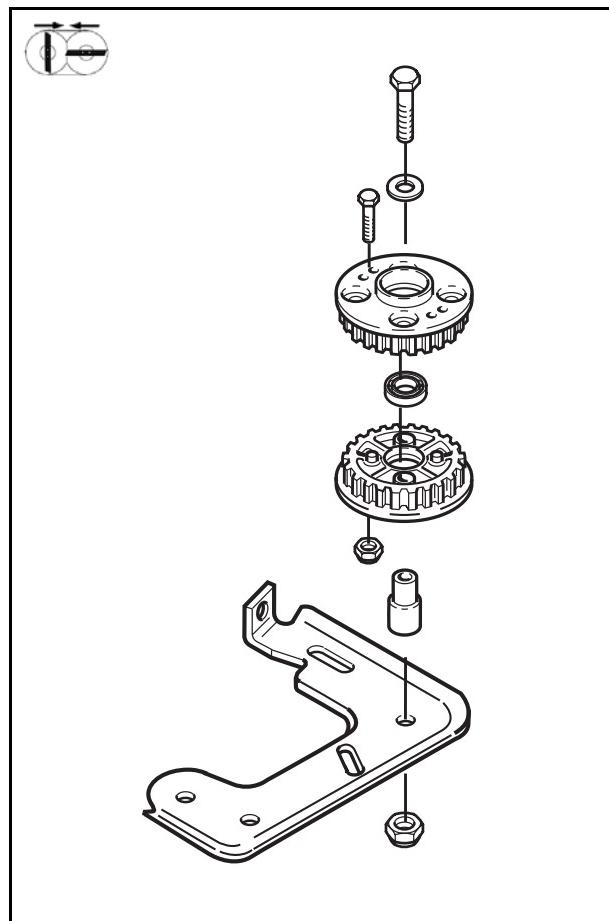
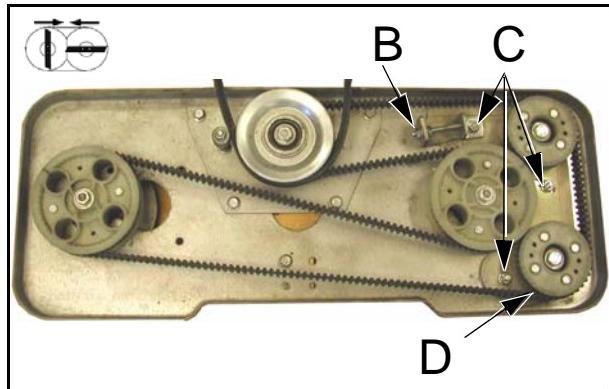
Adjustment pulley (D), 107 M+

This procedure is valid for 107 M+ , where the blades rotate against each other.

To dismantle the adjustment pulleys (D), first remove the timing belt as described previously.

Then proceed as follows:

1. Remove the nuts (B and C), take care of the screws and washers from the under side.
2. Take out the entire adjustment plate with the two pulleys and remove the pulleys. Use two 17 mm spanners.
3. Disassemble the pulleys by removing the four M6 screws with nuts.
4. Check the bearings by rotating them. No abnormal noise shall be heard.
5. Assemble the pulleys in reverse order.
6. Refit and adjust the timing belt as described previously.



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Intermediate pulleys with bearings

To dismantle the intermediate pulleys with bearings, first remove the timing belt as described previously.

Then proceed as follows:

1. Use a 17 mm spanner and remove the screw (A) and the pulleys.

Note!
! The nut is fixed under the plate and must not be held.

2. Dismantle the unit by unscrewing the four M6-screws.
3. Press out the bearing from the V-belt pulley (B).
4. Replace defective parts and assemble the unit in reverse order and according to the figure.

B. V-belt pulley

C. Bearing

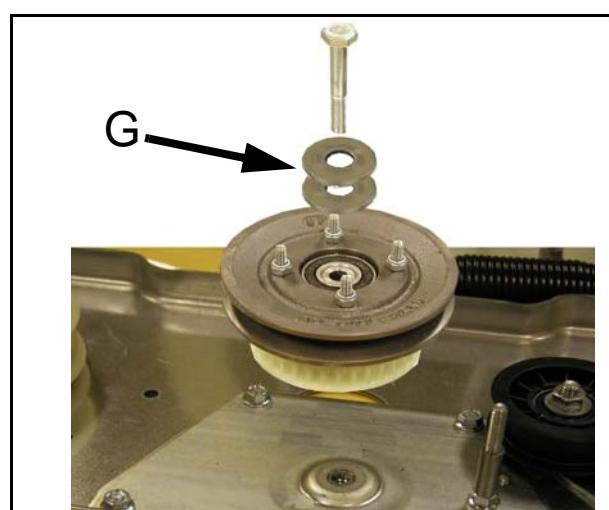
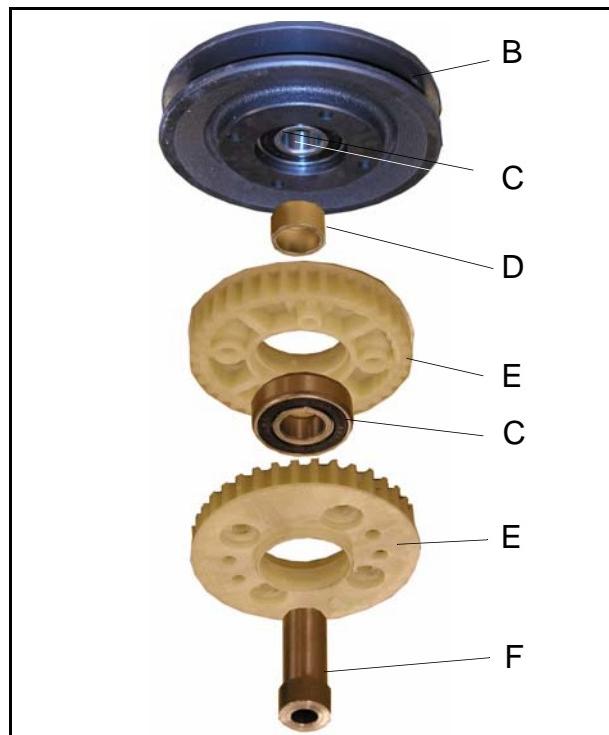
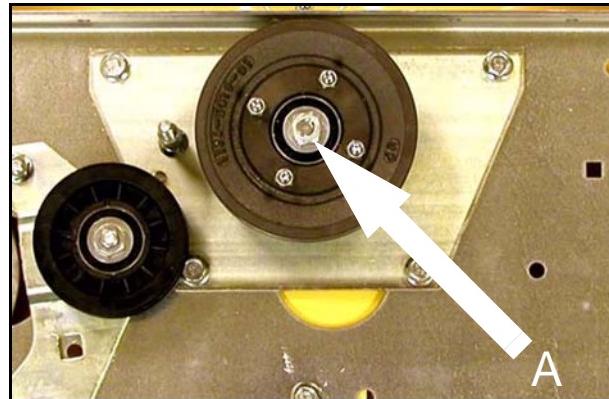
D. Distance

E. Pulley halves

F. Fixation sleeve

5. Reassemble the pulleys to the mower deck. Note the washers (G) above the unit.

3. Refit and adjust the timing belt as described previously.



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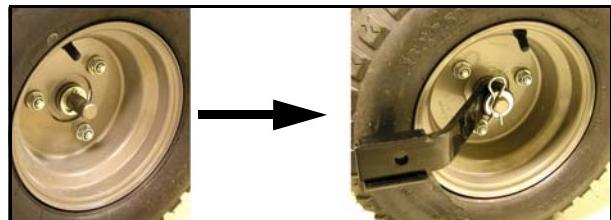
5 Mower Deck 121

5.1 Assembly on delivery

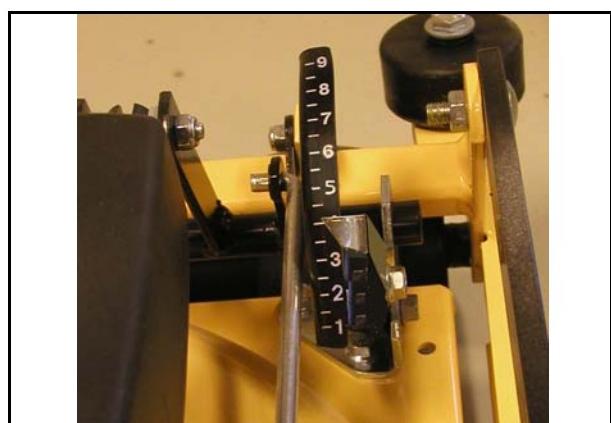
This instruction describes assembly with fixed deck connections. If quick connections shall be used, see "Quick connections" at page 57.

1. Take the deck out of the box.
2. Fit the deck short deck arms onto the front wheel shafts of the machine and secure with the locking pins.

Note!
! One flat washer shall be placed at each side of the deck arms onto the wheel shafts.



4. Set the cutting height just above the middleheight. In this position, the deck arms are not blocked by the side supports at the deck. Since the deck is moving up and down in a circular movement it will be closest to the PTO pulley which facilitate the belt attachment.



5. Remove the two height locking pins.



6. Secure the short deck arms to the deck with the two M10-screws.

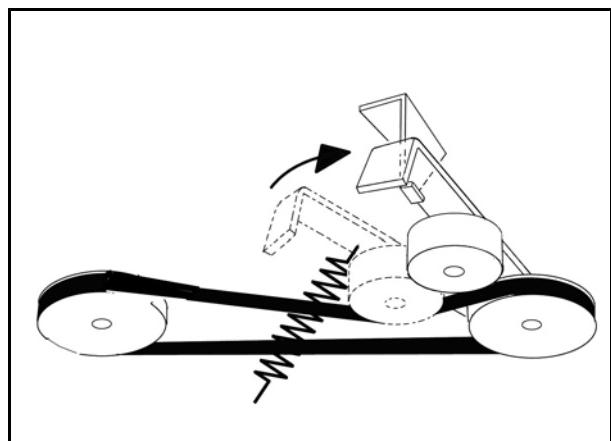


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7. Heighten the deck at the rear and refit the height locking pins.
8. Attach the front spring hinge to the machine front elevating arm.



9. Fit the V-belt to the articulation point pulley and tension the belt by hooking up the lever or the spring, depending on model.

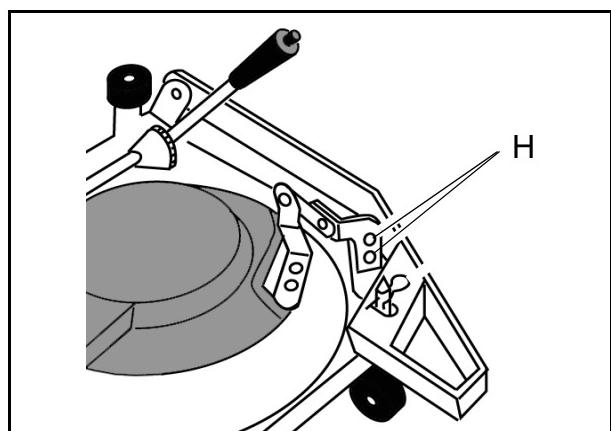
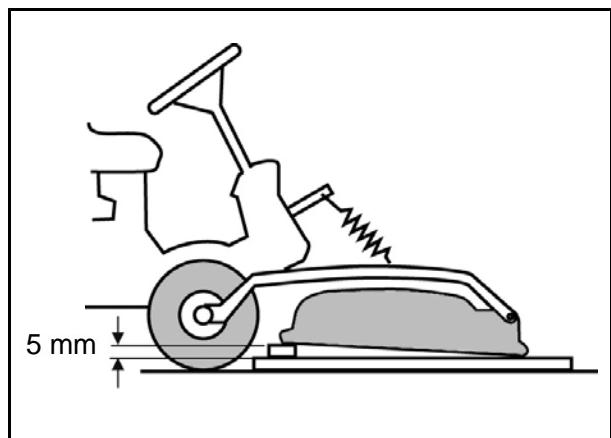


10. Fit the electrical height adjustment connector to the machine.

Basic setting

Perform basic setting as follows:

1. Place the machine on a level floor.
Requirements for floor flatness: $\pm 1 \text{ mm/m}$.
No slope towards a floor drain or similar may occur in front of or behind the machine.
2. The tyres must have the correct air pressure.
3. Place the deck in transport position and lay a plane-parallel plank under the deck.
4. Place a 5 mm tall spacer on the plank under the rear edge of the cutting deck, and lower the deck to the working position.
5. Undo the screws (H) so that the deck rests against the plank and the spacer. Check that the deck does not lean sideways in relation to the machine.
6. Tighten the screws (H) to 22 Nm.
7. Place the deck in transport position and remove the plank.



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5.2 Raising the deck

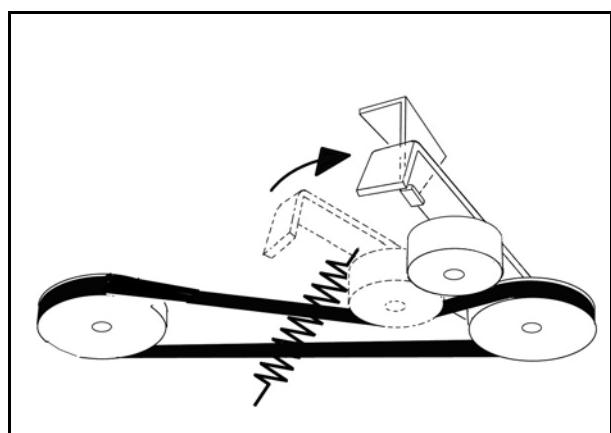
After every cutting, the deck shall be raised for cleaning and inspection. The raising procedure is performed in **five steps**. The lowering is performed in the same **five steps**, but with step 2-4 in the opposite order. The steps order at raising are as follows:

1. Set the cutting height just above the middleheight. Since the deck is moving up and down in a circular movement it will be closest to the PTO pulley which facilitate the belt attachment
2. Lift the deck at the rear and release the locking pin at the right side.
3. Lift the deck at the rear and release the locking pin at the left side.



- ! Note!
- Disconnect the connector for the electric height adjustment from the machine.

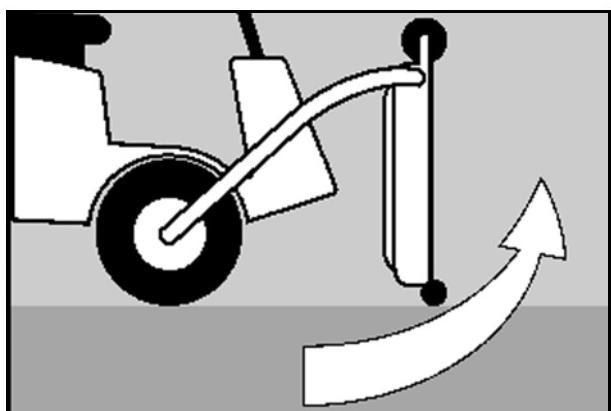
4. Slacken the belt by hooking off the lever or the spring, depending on model and remove the V-belt from the articulation point pulley.



5. Raise the deck and let it rest on the rear.

As mentioned above, the lowering is performed in the opposite order. That means the steps above in the following order:

1 - 5 - 4 - 3 - 2



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5.3 Replacement of blades

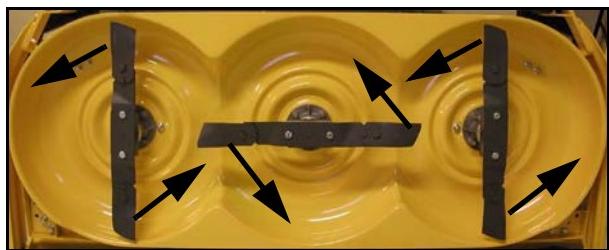


Warning!

The blades are sharp. Always wear gloves when working with the blades to avoid injury.

1. Release the screws that hold the blades, and remove the blades.

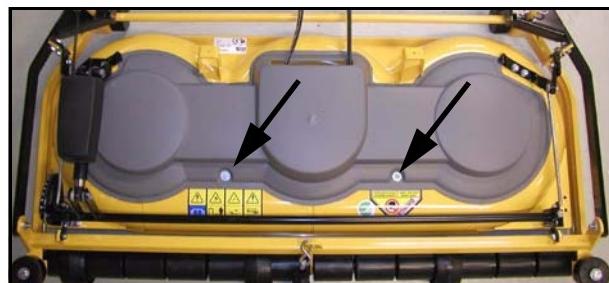
After removing the blades, check whether the shafts are damaged. This is best done by rotating the shafts to see if they are out of true.



2. Fit the blades with the raised edge towards the blade attachment.

The sharpened surfaces of the blades shall face in the rotation direction which is left when the deck is raised.

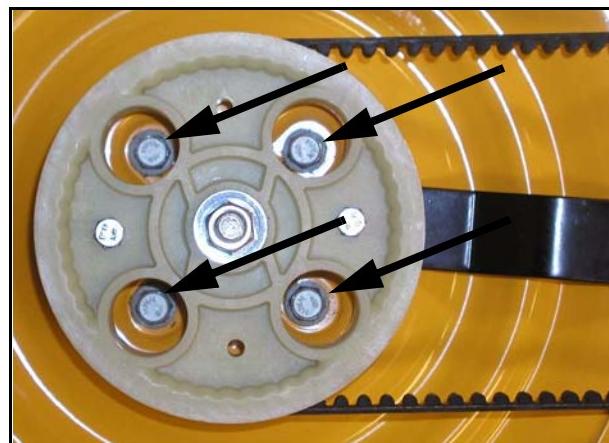
3. Tighten the screws to **24 Nm**.



5.4 Replacement of belts

To replace the timing belts, follow the steps below:

1. Remove the deck cover by loosening the two screws.



Note!

Do not lose the intermediate bearing housing.

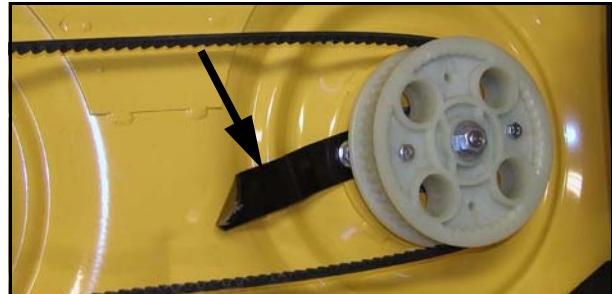
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3. Loose the tension bar screws a few turns and slacken the belts.

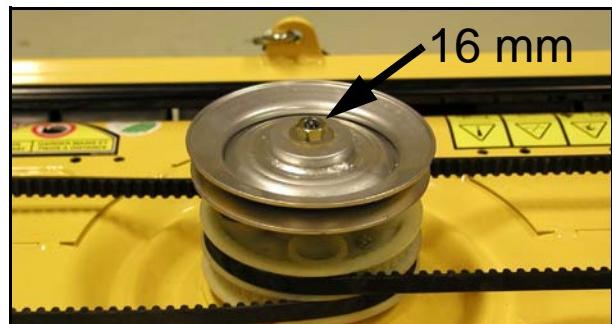


Warning!

The blades are sharp. Always wear gloves when working with the blades to avoid injury.



4. Remove the V-belt pulley with a 16 mm ring spanner. Hold the blade from the under side.

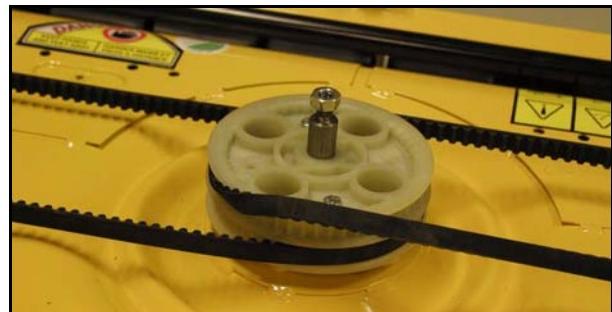


5. Work off the timing belts at the intermediate pulley.



Note!

First the right belt and than the left one.



6. Check the three knife shaft bearings as follows:

- Grab the pulley and force it in the radial direction. No radial play shall be felt.
- Grab the knife and force it in the radial direction. No radial play shall be felt.
- Rotate the shaft. No abnormal bearing noise shall be heard.

If bearing faults are determined, proceed with "Replacements of pulleys, shafts and bearings" at page 43.

7. Fit the new belts onto the pulleys. First the left belt and than the right one.

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Warning!

The tracks of adjacent blades are overlapping each other, which means that the synchronization is vital. Failed synchronization will result in severe damage to the blades and to the deck.

- When the timing belts are engaged with the pulleys, the blades shall be displaced exactly 90° in relation to each other. See the figure.



Warning!

The threads will be destroyed if the nut is tightened above the torque below.

- Refit the V-belt pulley with washer and nut. Use a 16 mm ring spanner. Hold the blade from the under side.

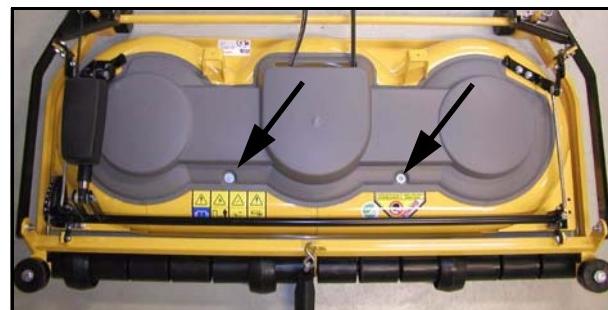


Note!

Tighten the shaft nut to 50 Nm.

- Adjust the belts as described below.

- Refit the deck cover and secure with the two screws and washers.

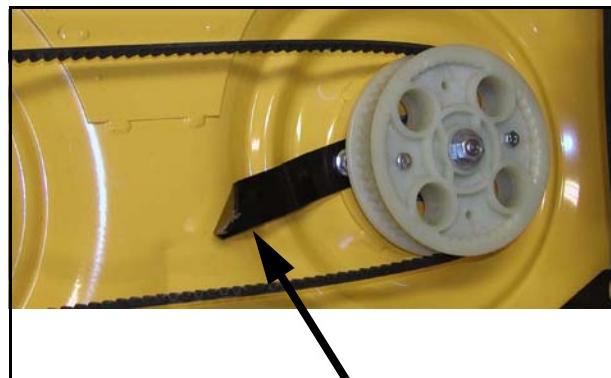
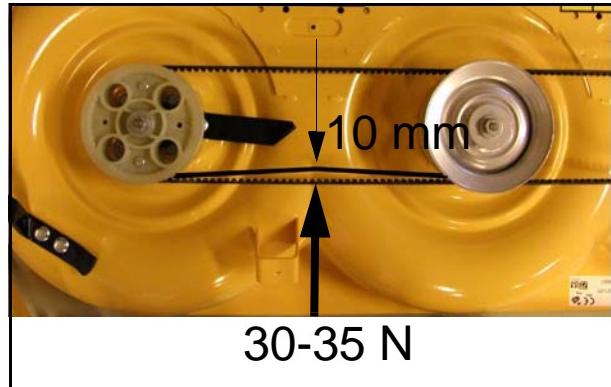


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5.5 Adjustment of belts

Adjust the timing belts as follows:

1. Measure the tension. The belt shall move 10 mm when it is pressed in with a force of 30-35 N as illustrated in the figure.
2. If the belts need adjustment, loosen the four screws for the respective bearing housing a few turns with a 13 mm box spanner through the pulleys. See the previous section.
3. Adjust the belts by moving the tension levers clockwise and tighten the bearing housing screws with a 13 mm box spanner.
4. Measure the tension as described above and, if necessary, make a new adjustment.



5.6 Replacements of pulleys, shafts and bearings

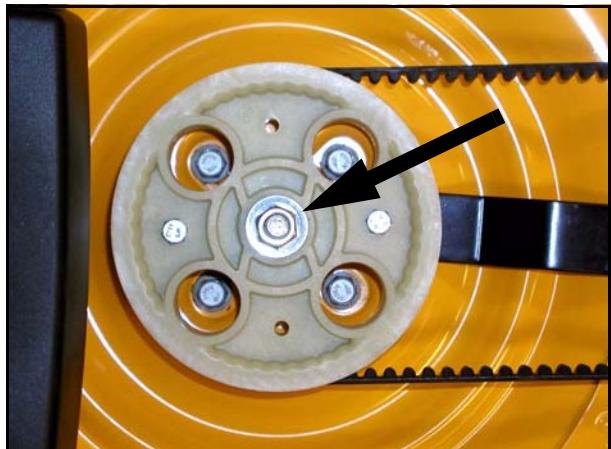
To replace the pulleys, shafts and bearings, first remove the timing belts as described previously including the V-belt pulley.

Blade shaft pulley and blade shaft

Warning!

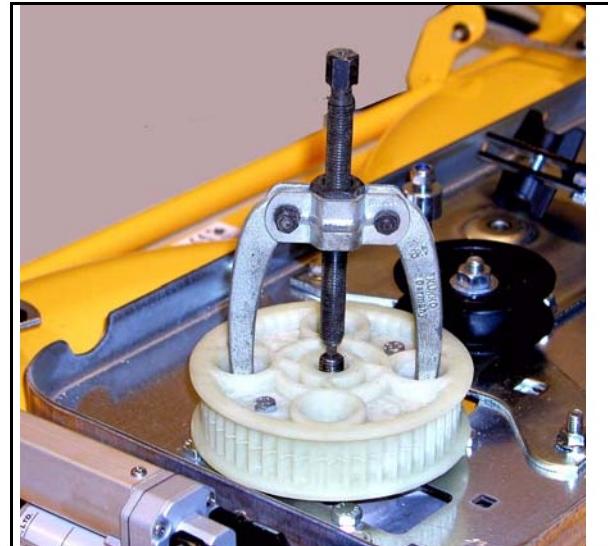
The blades are sharp. Always wear gloves when working with the blades to avoid injury.

1. Hold the blades under the deck by hand and remove the left and right pulley nuts with a 16 mm ring spanner.

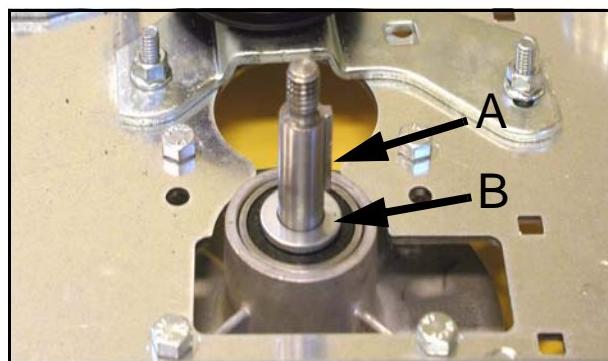


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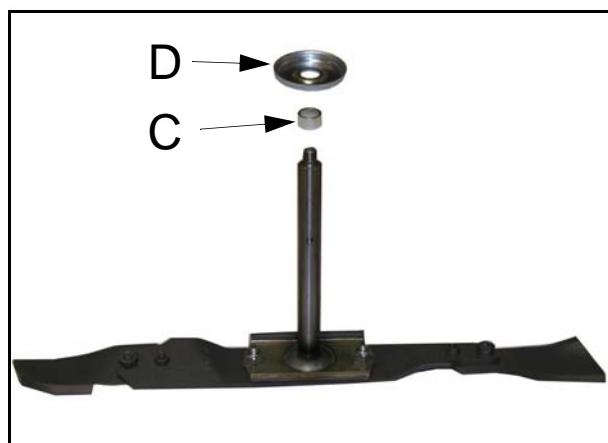
2. Remove the washers, located over the pulleys.



3. Normally, the pulleys can be forced from the shaft by hand, however, if it is tight on the shaft, a puller can be used. See the figure.



4. Remove the keys (A) and washers (B) under the pulleys. Pull out the blade shaft downwards.



5. Replace defective parts and proceed with the assembling as follows.

Note!
! The the location of the distance (C) and the shell washer (D) on the blade shafts.

Warning!
! **The threads will be destroyed if the nuts are tightened above the torque defined below.**

6. Tighten the left and right shaft nuts to 50 Nm. The nut for the intermediate shaft shall be mounted in connection with the belt assembly later.

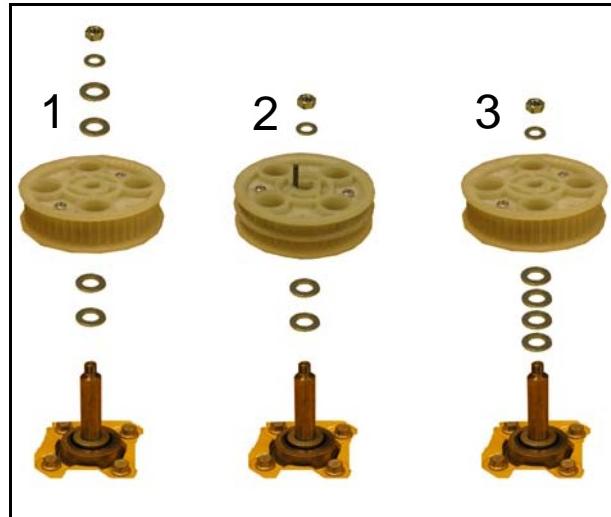
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- ! Note!
 ! The shaft nuts shall be tightened to
 50 Nm.

7. Assemble the pulleys with keys (A) and washers. Since the belts are placed on different levels, there are a different number of washers under and above the three pulleys. The washer locations are shown in the figure.

Pulleys:

1. Left pulley
2. Intermediate pulley
3. Right pulley



8. If the blade shaft bearings/bearing housings shall be replaced, see the next page.
9. Refit and adjust the timing belts as described previously.

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Blade shaft bearings

Each blade shaft is equipped with two sealed and permanent lubricated ball bearings. To replace the blade shaft bearings, first remove the timing belt their pulleys and the blade shafts as described previously.

Than proceed as follows:

1. Remove the actual bearing housing by unscrewing the four M8-screws.
2. Perform the bearing replacement as described "Blade shaft bearings" at page 32 in position 3-7 at page 32.



Warning!

To avoid burns, use gloves when handling heat parts.

3. Assemble the pulleys. Refit and adjust the timing belts as described previously.

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6 Mower deck 110 and 125 Combi Pro

6.1 Assembly on delivery

This instruction describes assembly with fixed deck connections. If quick connections shall be used, see "Quick connections" at page 57.

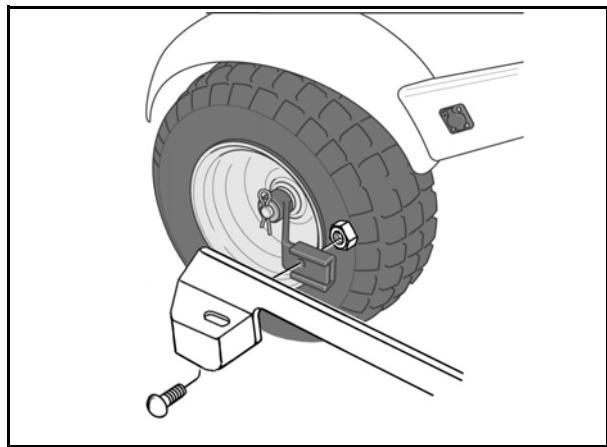
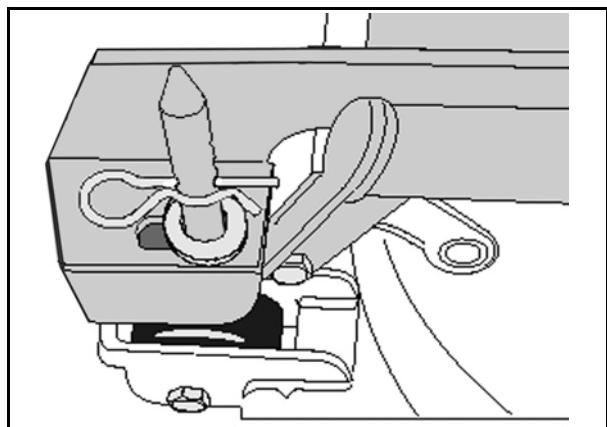
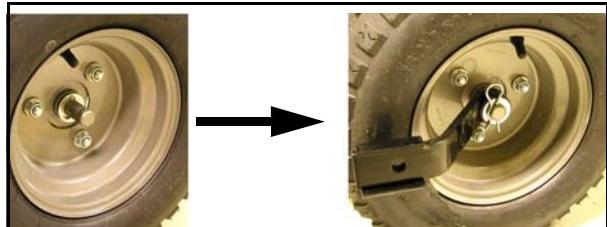
Mower deck

1. Take the deck out of the box.
2. Place the cutting deck in position in front of the machine.
3. Install the deck mounts on the front shafts.
4. Remove the pins and the washers on both sides.
5. Screw the arms into each other.

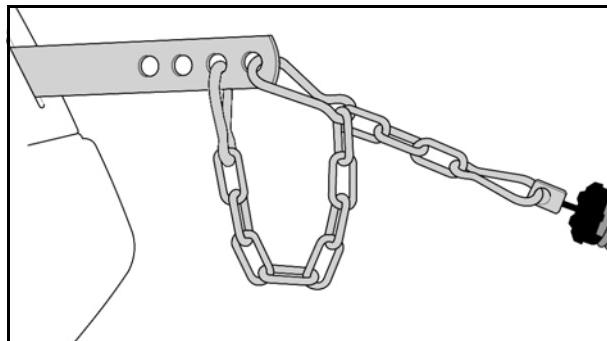


Note!

One flat washer shall be placed at each side of the deck arms onto the wheel shafts.



6. Suspend the cutting deck in the implement lifter.



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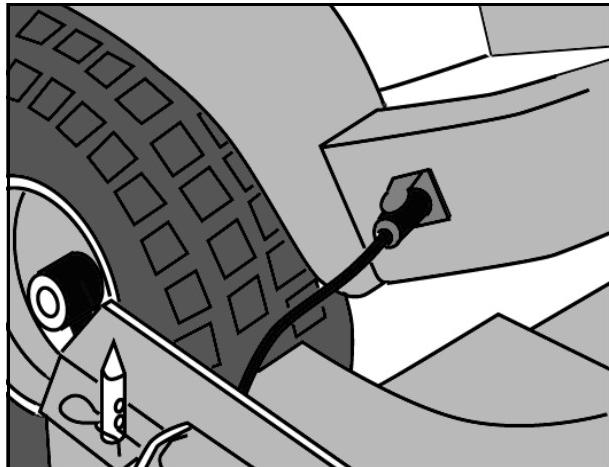
6. If the deck has electrical cutting height adjustment, connect the cable to the machine's front right socket.

Belt

The cutting deck's rear section should rest on the floor (it should not be lifted or secured).

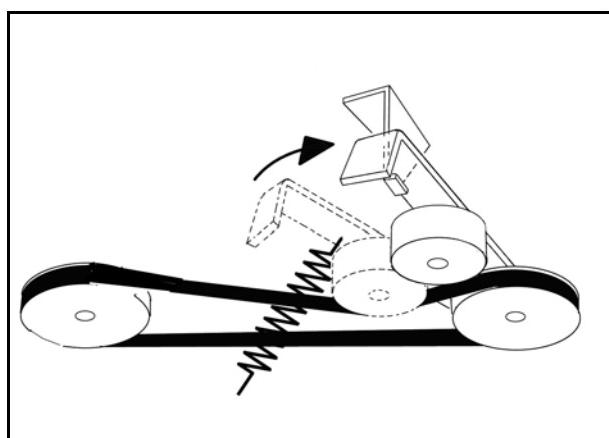
Install the belt as follows:

1. Set the maximum cutting height.



2. Locate the belt around the machine's belt pulley (B).

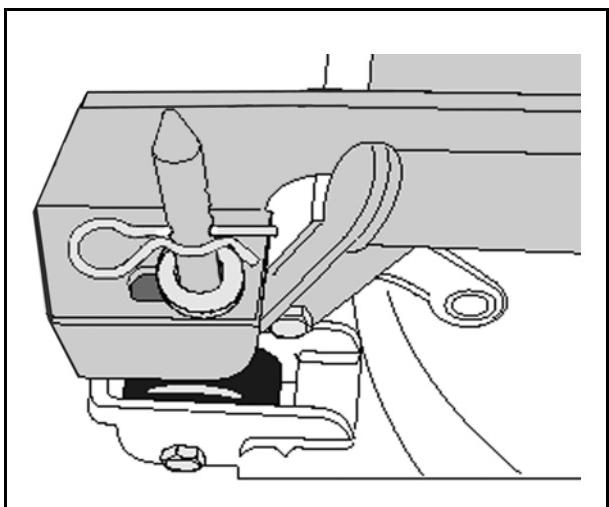
3. Fit the V-belt to the articulation point pulley and tension the belt by hooking up the lever or the spring, depending on model.



4. Lift up and secure the rear section of the cutting deck.

On machines with 17" wheels: Install the washers and the pins in the top hole.

On machines with 16" wheels: Install the washers and the pins in the middle hole.



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6.2 Raising the deck

The deck can be raised according to two procedures:

- 45° for washing and cleaning.
- 90° for service.

Washing position

1. Activate the parking brake.
 2. Set the implement lifter in transport position.
 3. Set the lowest cutting height.
 4. Remove pins and washers.
5. Grip the front edge of the deck and lift up.
Hook on the chain so that the deck is pointing diagonally upwards.

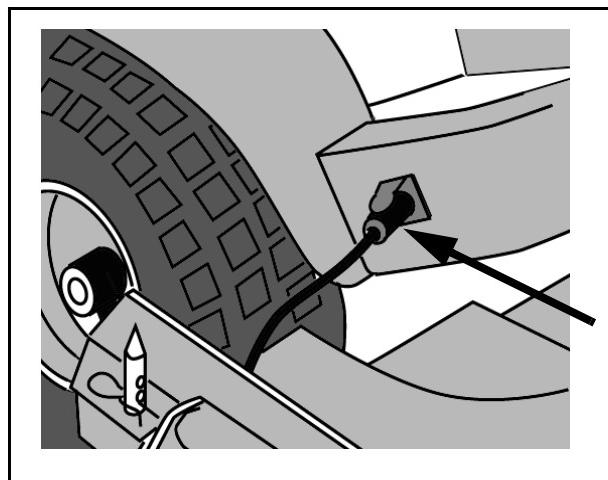
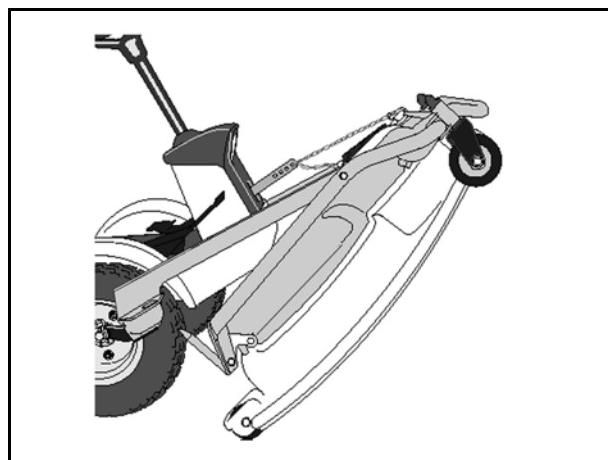
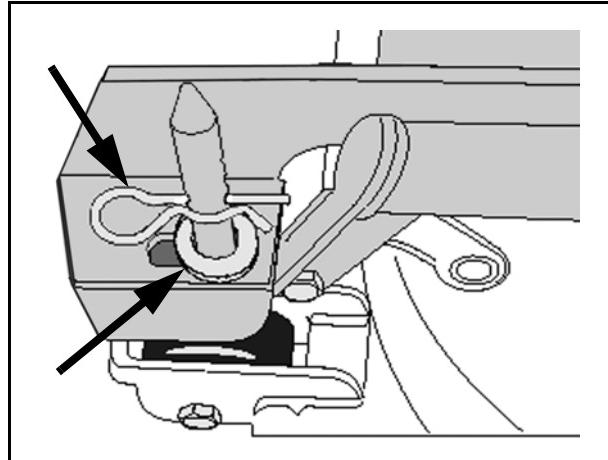
It is absolutely forbidden to start the engine when the deck is in the washing position.

Reset washing position

1. Lower the deck.
2. Proceed according to position 4 at page 48.

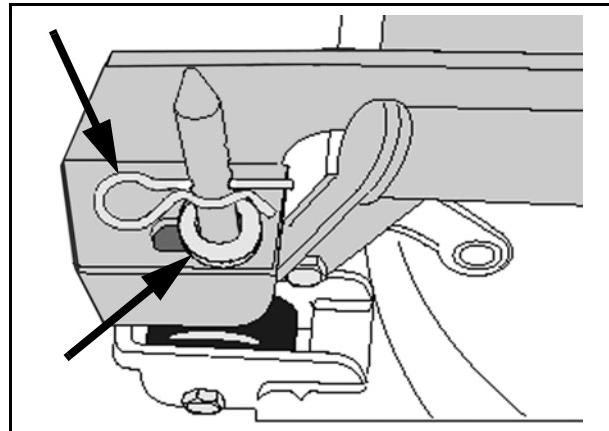
Service position

1. Activate the parking brake.
2. Set the implement lifter in transport position.
3. If the deck has electrical cutting height adjustment, disconnect the cable from the machine.
4. Set the highest cutting height.

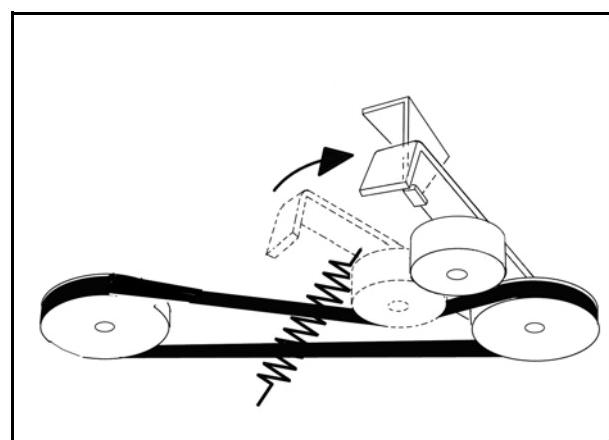


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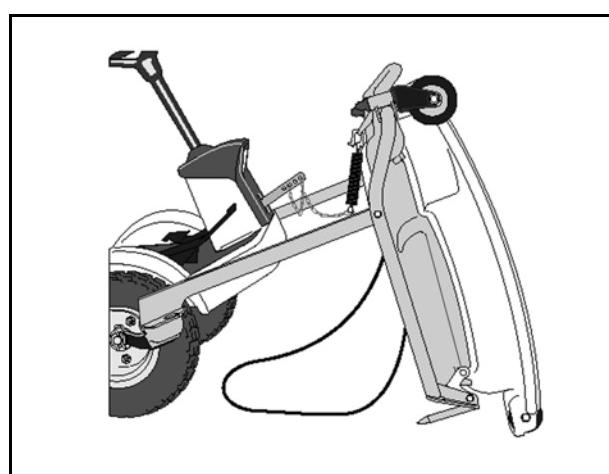
5. Remove pins and washers.



6. Slacken the belt by hooking off the lever or the spring, depending on model and remove the V-belt from the articulation point pulley.



8. Grip the front edge of the deck and lift up. Lift until the deck is completely vertical and rest the rear edge on the floor.



Reset service position

1. Lower the deck.
2. Proceed according to "Assembly on delivery" at page 47, position 6 and further.

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6.3 Replacement of blades



Warning!

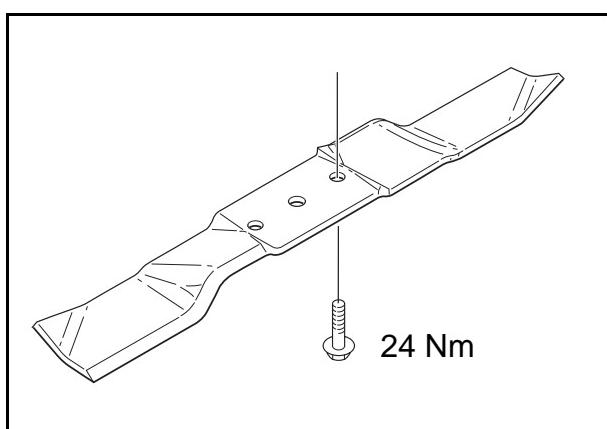
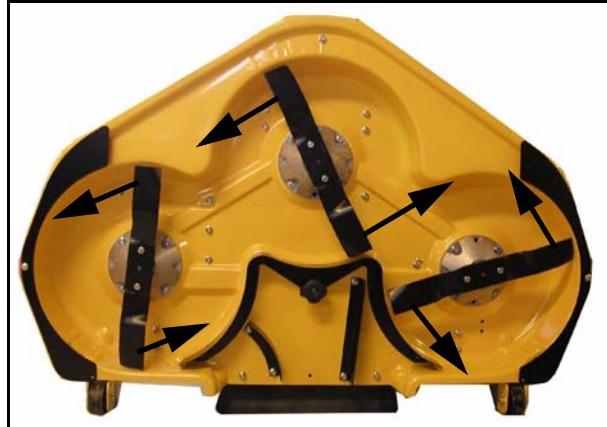
The blades are sharp. Always wear gloves when working with the blades to avoid injury.

1. Rise the deck to its service position. See "Service position" at page 49.
2. Release the screws that hold the blades, and remove the blades.
After removing the blades, check whether the shafts are damaged. This is best done by rotating the shafts to see if they are out of true.
3. Fit the blades with the raised edge towards the blade attachment.
The sharpened surfaces of the blades shall face in the rotation direction which is left when the deck is raised.
3. Tighten the screws.



Note!

The blades shall be tightened to 24 Nm.



6.4 Replacement of belt

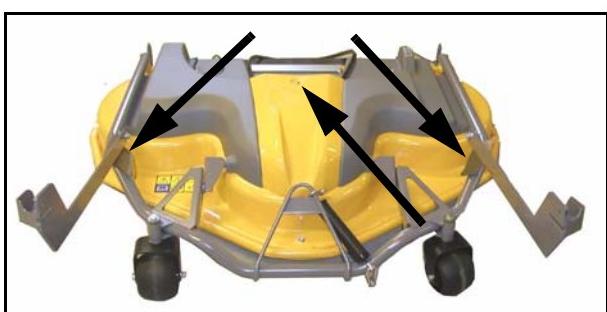
To replace the internal belt, follow the steps below:

1. Rise the two attachment arms and let them rest against the frame tubes.
2. If necessary, remove the top cover.



Note!

To avoid laquer damages, place protection plates under the arms.



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3. Set the cutting height to max. If the deck is provided with electrical height adjustment, connect the cable either to a machine and use the machine switch or to a separate battery.



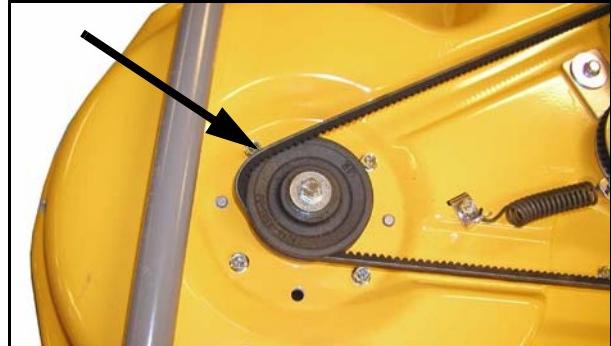
4. Remove the deck cover by loosening the two rear screws and if necessary the belt guide with its two screws.



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5. Force the belt over a suitable pulley and remove the belt. The tensioning roller will follow automatic.
6. Check the three knife shaft bearings as follows:
 - Grab the pulley and force it in the radial direction. No radial play shall be felt.
 - Grab the knife and force it in the radial direction. No radial play shall be felt.
 - Rotate the shaft. No abnormal bearing noise shall be heard.
7. Check the linkage for play and other damages.
8. If bearing faults are determined, proceed with ""Replacements of pulleys, shafts and bearings" at page 54" below.
 If the linkage needs repair, proceed with ""Linkage" at page 56".
 Otherwise mount the new belt in the reverse order.

! Note!
 Always use original spare belts from the retail dealer.



6.5 Adjustment of the belt

The internal belt is automatically adjusted by the roller, fitted on the spring forced lever, and does not need any further adjustment.

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6.6 Replacements of pulleys, shafts and bearings

To replace the pulleys, shafts and bearings, first remove the internal belt as described previously.

Below is described the disassembly/assembly of the center shaft unit. To repair the other units, use the applicable instructions described below.

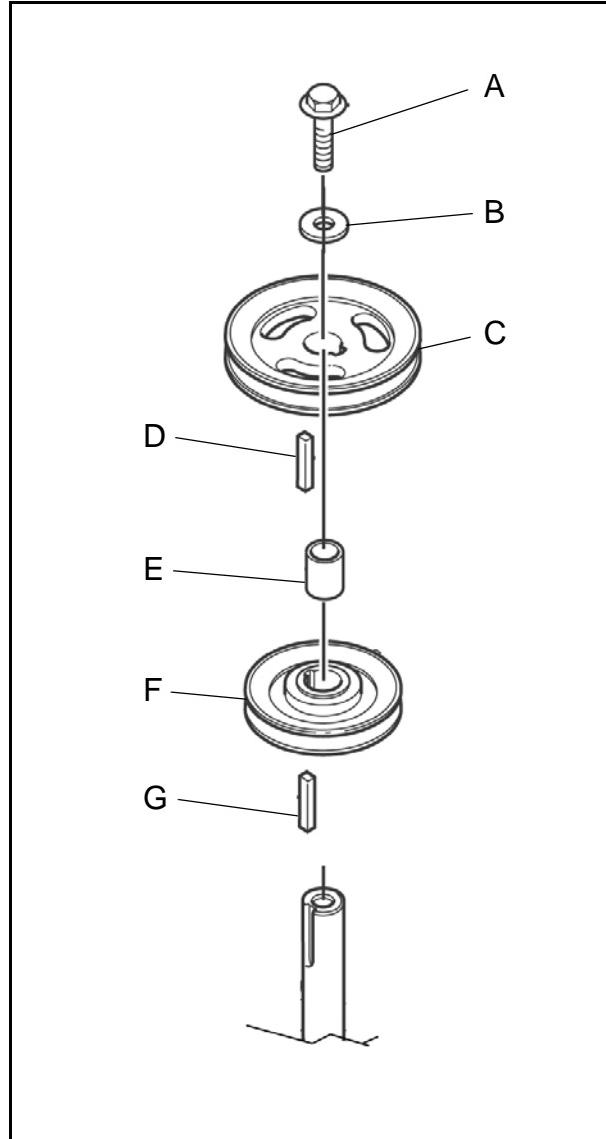
Blade shaft pulley and blade shaft

Warning!



The blades are sharp. Always wear gloves when working with the blades to avoid injury.

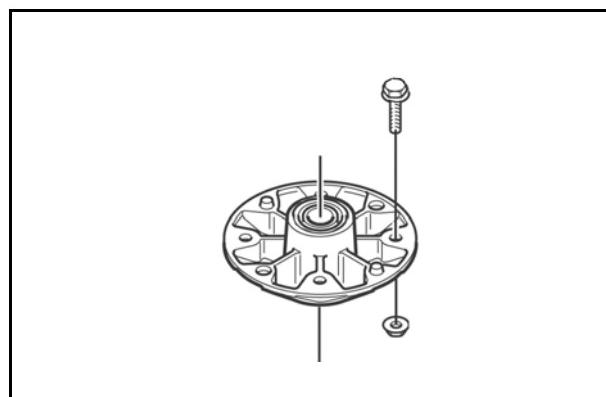
1. Hold the blades under the deck by hand and remove the pulley nut (A) with washer (B). Use a 17 mm ring spanner.
2. Support the shaft unit against the floor with a wood piece or similar and remove the following parts:
 - Upper pulley (C)
 - Key (D)
 - Distance sleeve (E)
 - Lower pulley (F)
 - Key (G)
3. Lift the deck carefully at the front and pull out the shaft unit downwards.



If the bearings shall be replaced, proceed with "Bearings" below. Otherwise proceed with "Assembly".

Blade shaft bearings

1. Remove the four screws, holding the bearing housing. Use two 13 mm spanners.
2. Take out the bearing housing.
3. Replace the bearings as described in position 3-7 at page 32.



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Assembly

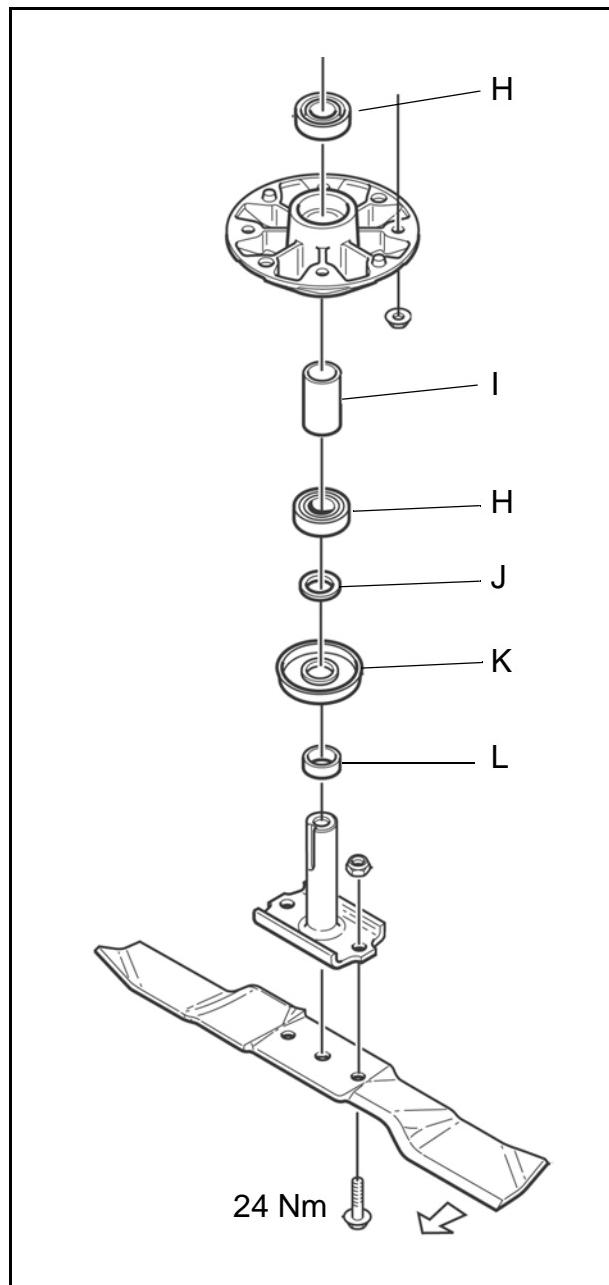
- ! Note!
According the blades, see "Replacement of blades" at page 51.

Assemble the shaft unit in the reverse order.

1. The bearings (H) and sleeve (I) shall be mounted in the bearing housing.
2. Fit the bearing housing on the deck with the four screws and washers.
3. Mount the washers (J and K) and sleeve (L) on the shaft.
4. Push up the shaft through the bearings.
5. Assemble the upper parts as described at the previous page.

- ! Note!
The pulleys (F) shall be turned with the mark (UP) faced upwards.

- ! Note!
The blades shall be tightened to 24 Nm.



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6.7 Linkage

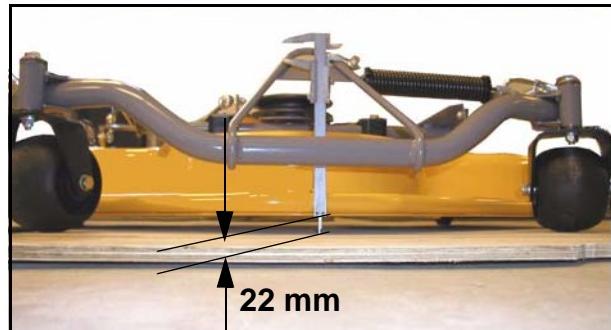
1. Remove the covers as described in "Replacement of belt" at page 51.
2. The cutting height shall remain in the upper position. In this position, the spring has a minimum of tension.
3. Bend a 1 mm steel wire to form a narrow hook, fit it to the spring loop and pull off the spring.
4. Remove the elbow links. Use a 13 spanner and hold with a 11 mm U-spanner.
5. Replace defective parts and assemble in the reverse order.



Adjustment of linkage

The deck linkage desires the difference between the ground height at the rear and front part of the deck. To achieve correct basic setting of the deck, perform the inclination adjustment as follows:

1. Place a plane-parallel plank under the wheels.
2. Adjust the linkage until the deck front edge is 22 mm from the plank.
3. Refit and lock the linkage adjustments.



Assembly

Assemble all parts in the reverse order.

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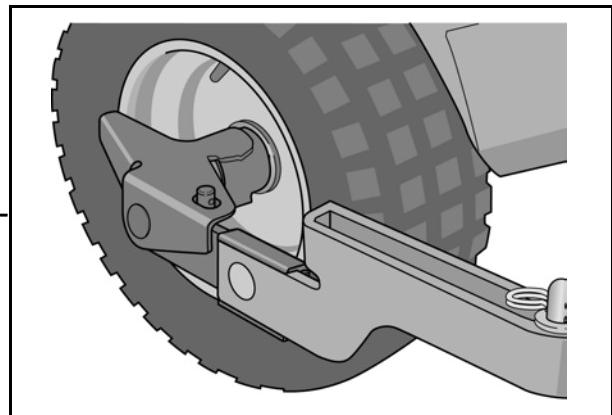
7 Quick connections

7.1 Description

The quick-release mountings are intended for use on Stiga's Park machines, 2WD and 4WD. The quick-release mountings allow the deck to be moved easily between the two positions:

- Normal position with fully tensioned belt.
- 4 cm behind the normal position with slackened belt.

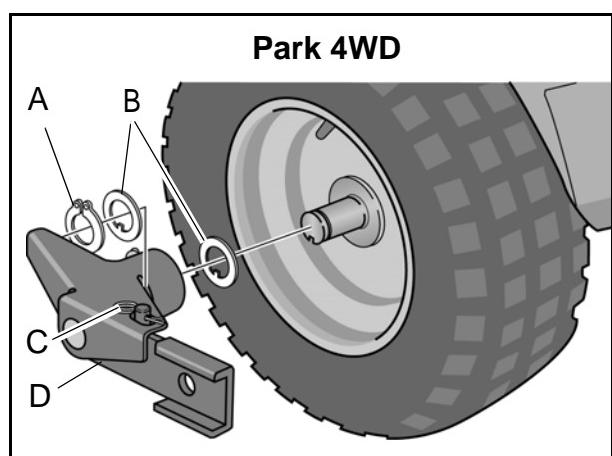
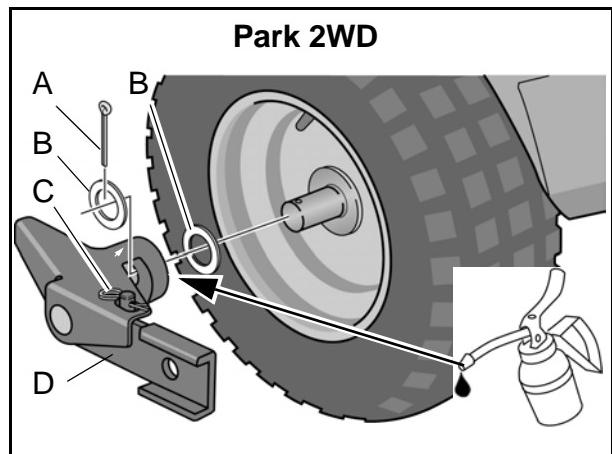
As the belt idler is released from the belt, the quick-release mountings simplify belt and deck replacement, and also make shifting to the washing position and service positions easier.



7.2 Assembly

The delivery consists of the following components. The figures only display the right-hand side, but the numbers below refer to both sides.

Position	2WD	4WD
A	2 cotter pins	2 locking rings
B	4 washers	4 washers
C	2 locking pins	2 locking pins
D	Quick-release mounting, right and left	Quick-release mounting, right and left
E	2 screws	2 screws
F	2 nuts	2 nuts



Install the quick-release mountings according to the instructions below.

1. Only applies to 2WD machines; Lubricate the shaft ends of the machine and the quick-release mounting's bearing surface with oil before installation.
2. Install the quick-release mountings to the machine according to the figures.

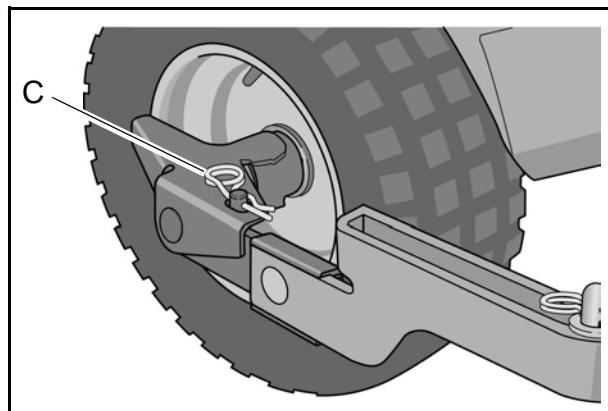
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3. Only applies to 2WD machines; Bend out the cotter pin's (A) leg along the periphery of the shaft in order to secure it in the shaft.
4. Only applies to 4WD machines; Lubricate the lubricating cup for the quick-release mounting using a grease gun until grease penetrates along the shaft sides.

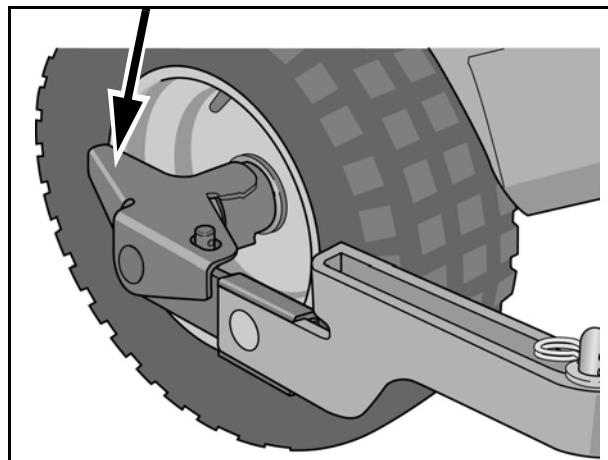
7.3 Using the quick connections

Releasing the belt tension

1. Remove the locking pins (C) from both sides.



2. Press down the rear section of the quick-release mountings with your heel.
3. Carry out necessary corrective action, e.g. setting the deck to the service position.



Tensioning the belt

First tension one side and then the other according to the instructions below.



Use protective gloves when handling the lever. Risk of crushing injuries.

1. Firmly grasp the lever (5:G) in front of the centre of the shaft and carefully turn 180° forwards.
2. Install the locking pin (C).
3. Carry out the above on the other side.

